Division of Facilities Construction and Management

PAROLE VIOLATOR CENTER

for DEPARTMENT OF CORRECTIONS

Construction Documents

D.F.C.M. PROJECT NO. 10124120

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Salt Lake City, Utah 84103
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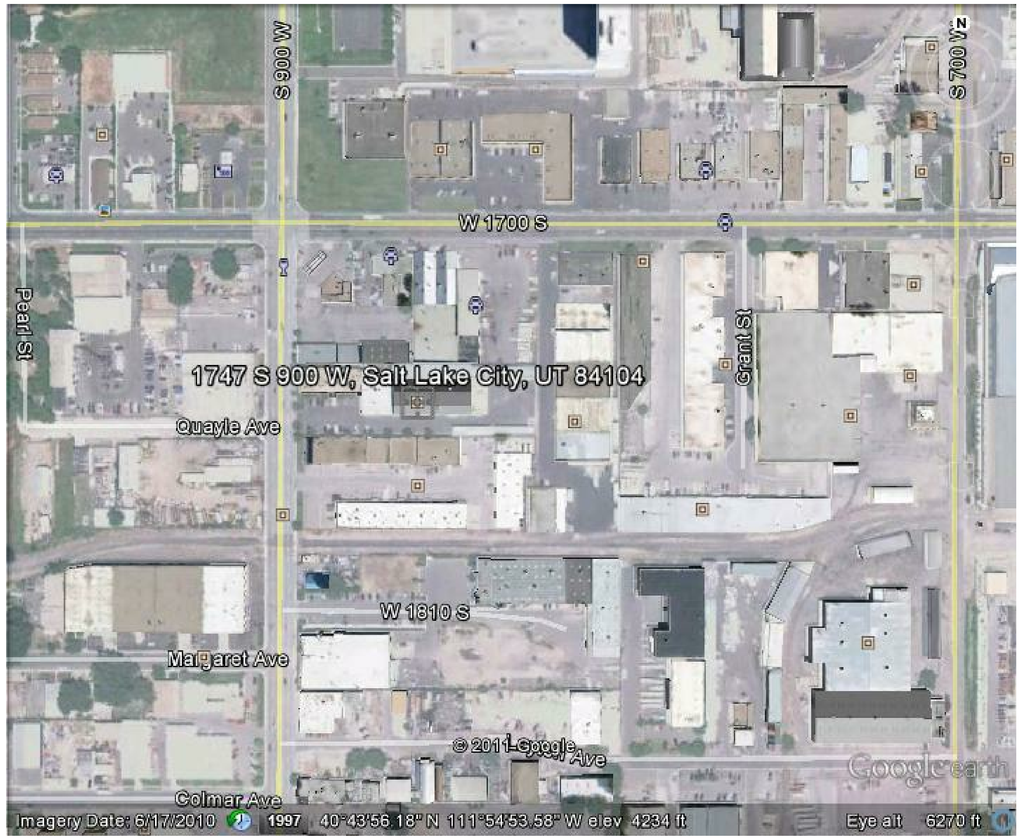
GSBS PROJECT NO.: 2011.081.00
ISSUED DATE: 4/11/2012

VICINITY MAP



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ABBREVIATIONS

#	NUMBER	DTL.	DETAIL	HT.	HEIGHT	QTY.	QUANTITY
@	AT	DWGS.	DRAWINGS	HVAC	HEATING/VENTILATION/ AIR CONDITIONING	R.D.	ROOF DRAIN
℄	CENTER LINE	EA.	EACH	HYD	HYDRANT	RAD.	RADIUS
⌀	DIAMETER	E.F.	EACH FACE	I.D.	INSIDE DIAMETER	REINF.	REINFORCED
L	ANGLE	E.J.	EXPANSION JOINT	I.F.	INSIDE FACE	REQ'D	REQUIRED
3L	THREE LAYERS	EL.	ELEVATION	IN.	INCHES	RM.	ROOM
A.B.	ANCHOR BOLT	ELEV.	ELEVATION	INFO.	INFORMATION	R.O.	ROUGH OPENING
ABV.	ABOVE	EQ.	EQUAL	INSUL.	INSULATION	SCHED.	SCHEDULE
ADJ.	ADJUSTABLE	E.S.	EACH SIDE	LAV.	LAVATORY	S.D.I.	STEEL DECK INSTITUTE
A.F.F.	ABOVE FINISH FLOOR	E.W.	EACH WAY	LT.	LIGHT	SHR.	SHOWER
A.I.A.	AMERICAN INSTITUTE OF ARCHITECTS	EXIST.	EXISTING	LT. WT.	LIGHT WEIGHT	SHT.	SHEET
ALUM.	ALUMINUM	EXPAN.	EXPANSION	MAINT.	MAINTENANCE	SIM.	SIMILAR
APPROX.	APPROXIMATE	EXT.	EXTERIOR	MANUF.	MANUFACTURER	S.J.I.	STEEL JOIST INSTITUTE
ARCH.	ARCHITECTURAL	E.W.C.	ELECTRIC WATER COOLER	MAX.	MAXIMUM	SPEC.	SPECIFICATION
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS	F.D.	FLOOR DRAIN	MAT.	MATERIAL	STC	SOUND TRANSMISSION COEFFICIENT
D.B.A.	DEFORMED BAR ANCHOR	FDN.	FOUNDATION	M.C.J.	MASONRY CONTROL JOINT	STD.	STANDARD
BD.	BOARD	FDTN.	FOUNDATION	MECH.	MECHANICAL	STIFF.	STIFFENER
BITUM.	BITUMINOUS	F.E.	FIRE EXTINGUISHER	MFR.	MANUFACTURER	STR.	STRUCTURAL
BLDG.	BUILDING	F.E.C.	FIRE EXTINGUISHER CABINET	MIN.	MINIMUM	SUPER.	SUPERVISOR
B.M.	BENCHMARK	F.F.	FINISH FLOOR	MISC.	MISCELLANEOUS	SUSP.	SUSPENDED
B.O.	BOTTOM OF	FIN.	FINISH	M.O.	MASONRY OPENING	THRU	THROUGH
BOT.	BOTTOM	FLR.	FLOOR	MTL.	METAL	T.O.	TOP OF
B.P.	BASE PLATE	FT.	FEET	N.I.C.	NOT IN CONTRACT	T.O.A.	TOP OF ASPHALT
BRG.	BEARING	FTG.	FOOTING	NO.	NUMBER	T.O.C.	TOP OF CURB
BTWN.	BETWEEN	GA.	GAGE/GAUGE	N.T.S.	NOT TO SCALE	T.O.F.	TOP OF FOOTING
CER.	CERAMIC	GAL.	GALLON	O.C.	ON CENTER	T.O.S.	TOP OF SLAB OR SIDEWALK
C.J.	CONSTRUCTION JOINT	GALV.	GALVANIZED	O.D.	OUTSIDE DIAMETER	T.O.W.	TOP OF WALL
CLG.	CEILING	GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	O.F.	OUTSIDE FACE	TYP.	TYPICAL
CLR.	CLEAR	GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	O.H.	OVERHEAD	U.N.O.	UNLESS NOTED OTHERWISE
CMU	CONCRETE MASONRY UNIT	GPM	GALLONS PER MINUTE	OHD	OVERHEAD DOOR	VCT	VINYL COMPOSITION TILE
COL.	COLUMN	GND.	GROUND	OPP.	OPPOSITE	VERT.	VERTICAL
CONC.	CONCRETE	GOVT.	GOVERNMENT	O.W.S.J.	OPEN WEB STEEL JOIST	VEST.	VESTIBULE
CONT.	CONTINUOUS	GWB.	GYPSUM WALL BOARD	PART.	PARTITION	VNR.	VENEER
CONST.	CONSTRUCTION	GYP. BD.	GYPSUM WALL BOARD	P.C.F.	POUNDS PER CUBIC FOOT	W/	WITH
COORD.	COORDINATE	HC.	HANDICAPPED	PERP.	PERPENDICULAR	WD.	WOOD
C.P.	CAP PLATE	HDW.	HARDWARE	PL.	PLATE	W.W.F.	WELDED WIRE FABRIC
C.T.J.	CONTRACTION JOINT	H.M.	HOLLOW METAL	P.L.F.	POUNDS PER LINEAL FOOT		
DBL.	DOUBLE	HORIZ.	HORIZONTAL	PNTD.	PAINTED		
DEPT	DEPARTMENT	HR.	HOUR	PROT.	PROTECTION		
DET.	DETAIL	H.S.A.	HEADED STUD ANCHOR	P.S.F.	POUNDS PER SQUARE FOOT		
DIA.	DIAMETER			P.S.I.	POUNDS PER SQUARE INCH		

GRAPHIC SYMBOLS

GRID / GRID	GRID LINES
# / SHEET	DETAIL SYMBOL DETAIL NUMBER/ SHEET WHERE DETAIL IS DRAWN
# / SHEET	BUILDING SECTION SYMBOL SECTION REFERENCE/ SHEET WHERE SECTION IS DRAWN
# / SHEET	WALL SECTION SYMBOL SECTION REFERENCE/ SHEET WHERE SECTION IS DRAWN
SHEET #	INTERIOR ELEVATION SYMBOL ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS DRAWN
	ELEVATION CONTROL POINT OR DATUM POINT
100A	DOOR NUMBER
W1	WINDOW OR STOREFRONT NUMBER
NAME 101	ROOM NAME ROOM NUMBER
1	REVISION
1	KEYNOTE
# / SHEET; # / SCALE/ REF SHEET	VIEW NAME SYMBOL VIEW NUMBER/ SHEET WHERE VIEW IS LOCATED/ VIEW NAME/ VIEW SCALE REFERENCING SHEET

NOTE:
REFERENCING SHEET PARAMETER IS ONLY SHOWN FOR SPECIFIC VIEWS/DETAILS TO ASSIST IN FINDING WHICH SHEET THE DETAIL IS REFERENCED FROM. REFERENCING SHEET INDICATES ONE LOCATION FOR THE DETAIL BUT DETAIL COULD OCCUR IN MULTIPLE LOCATIONS.

MATERIALS/LEGEND

- CONCRETE MASONRY UNIT
- FACE BRICK
- CONCRETE (POURED IN PLACE)
- GYPSUM BOARD OR SETTING BEDS
- INSULATION (BATT & BLANKET)
- INSULATION (RIGID/SEMI-RIGID)
- PLYWOOD
- CONTINUOUS ROUGH WOOD
- BLOCKING, ROUGH WOOD
- METAL (LARGE SCALE)
- GRAVEL
- EARTH
- QUARRY/CERAMIC TILE

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Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

INDEX SHEET

CONSTRUCTION DOCUMENTS

GI-11

CODE ANALYSIS - BUILDING 1

APPLICABLE CODES	Year		Year
International Building Code	2009	National Electrical Code	2008
International Mechanical Code	2009	Uniform Code for Building Conservation	2009
International Fuel Gas Code	2009		
International Plumbing Code	2009	ADA Accessibility Guidelines	2009
International Fire Code	2009		
International Energy Conservation Code	2009		

A. Occupancy and Group: B

Change in Use: Yes ____ No X Mixed Occupancy: Yes ____ No X
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: ____ Design Wind Speed: ____ mph

C. Type of Construction (circle one):

I	I	II	II	III	III	IV	V	V
A	B	A	B	A	B	HT	A	B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 0 South: 0 East: 2 West: 0

E. Mixed Occupancies: NO Nonseparated Uses: ____

F. Sprinklers:

Required: NO Provided: NO

Type of Sprinkler System (IBC 903.3.1) N/A

G. Number of Stories: 2 Building Height: 24'-7"

H. Actual Area per Floor (square feet): 7,840/7,840

I. Tabular Area: (table 503): 23,000

J. Area Modifications:

a) $A_a = \{23{,}000 + [23{,}000 \times .25] + [23{,}000 \times 0]\} = 28{,}750$

If = [196/392 - 0.25] 25/30= .25

b) Sum of the Ratio Calculations for Mixed Occupancies:

Actual Area / Allowable Area = 1

c) Total Allowable Area for:
1) One Story: 28,750
2) Two Story: $A_a(2)$ ____
3) Three Story: $A_a(3)$ ____

d) Unlimited Area Building: Yes ____ No X Code Section: ____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	0	
Partitions - Permanent	0		Fire Walls	2	
Fire Barriers	0		Fire Partitions	0	
			Smoke Partitions	0	

L. Design Occupant Load: SEE CODE PLAN
Exit Width Required: ____ Exit Width Provided: ____

M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) 4 (f) 4 Provided (m) 4 (f) 4
b) Urinals - Required (m) (f) Provided (m) 1 (f)____
c) Lavatories - Required (m) 3 (f) 3 Provided (m) 4 (f) 3
d) Bath Tub or Showers: N/A
e) Drinking Fountains: 2 Service Sinks: 1

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA guidelines and specific reference to the International Building Code Accessibility Chapters, the more requirements shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not all limited to:

a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

CODE ANALYSIS - BUILDING 2

APPLICABLE CODES	Year		Year
International Building Code	2009	National Electrical Code	2008
International Mechanical Code	2009	Uniform Code for Building Conservation	2009
International Fuel Gas Code	2009		
International Plumbing Code	2009	ADA Accessibility Guidelines	2009
International Fire Code	2009		
International Energy Conservation Code	2009		

A. Occupancy and Group: R-2

Change in Use: Yes X No ____ Mixed Occupancy: Yes ____ No X
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: ____ Design Wind Speed: 90 mph

C. Type of Construction (circle one):

I	I	II	II	III	III	IV	V	V
A	B	A	B	A	B	HT	A	B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 1 South: 0 East: 0 West: 2

E. Mixed Occupancies: ____ Nonseparated Uses: ____

F. Sprinklers:

Required: ____ Provided: X

Type of Sprinkler System (IBC 903.3.1) NFPA 13

G. Number of Stories: 2 Building Height: 24'

H. Actual Area per Floor (square feet): 27,625/10,488

I. Tabular Area: (table 503): 16,000

J. Area Modifications:

a) $A_a = \{16{,}000 + [16{,}000 \times .26] + [16{,}000 \times 3]\} = 68{,}160$

If = [375/730 - 0.25] 30/30=.26

b) Sum of the Ratio Calculations for Mixed Occupancies:

Actual Area / Allowable Area = 1

c) Total Allowable Area for:
1) One Story: 68,160
2) Two Story: $A_a(2)$ ____
3) Three Story: $A_a(3)$ ____

d) Unlimited Area Building: Yes ____ No X Code Section: ____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	0	
Partitions - Permanent	0		Fire Walls	2	
Fire Barriers	0		Fire Partitions	0	
			Smoke Partitions	0	

L. Design Occupant Load: SEE CODE PLAN
Exit Width Required: ____ Exit Width Provided: ____

M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) 31 (f) Provided (m) 17 (f)____
b) Urinals - Required (m) 17 (f) Provided (m) 17 (f)____
c) Lavatories - Required (m) 31 (f) 31 Provided (m) 31 (f) 34
d) Bath Tub or Showers: 38
e) Drinking Fountains: 2 Service Sinks: 1

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA guidelines and specific reference to the International Building Code Accessibility Chapters, the more requirements shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not all limited to:

a) High Rise Requirements.
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d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

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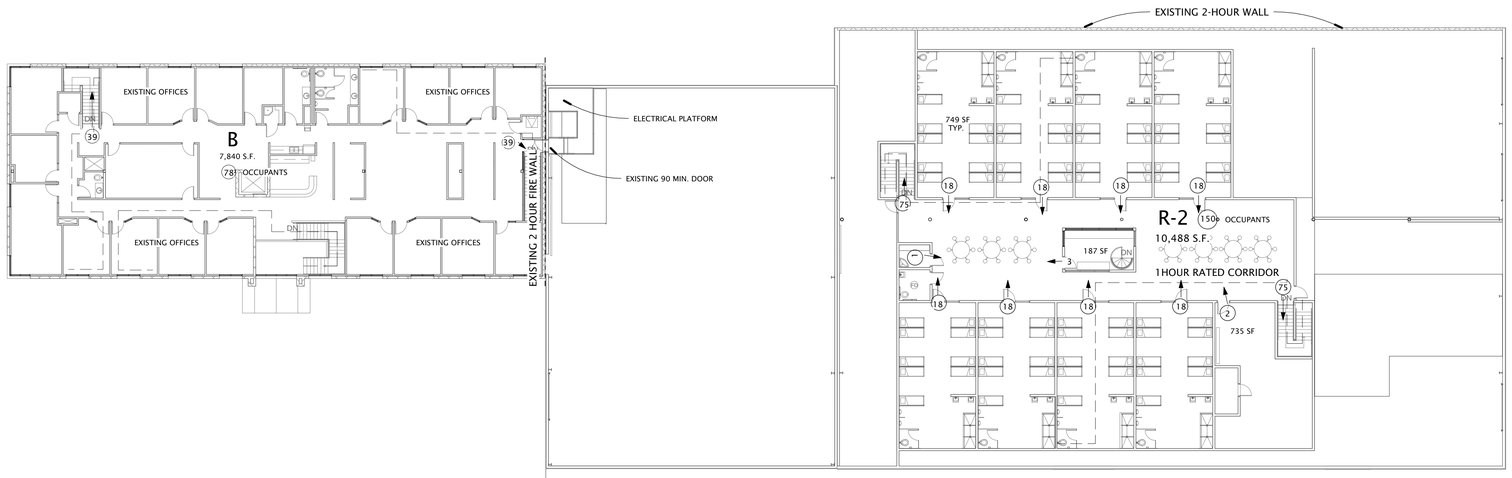
REVISIONS:

DORM OCCUPANCY NUMBERS ARE BASED ON BED COUNTS, TYPICAL.



2 GI-101 LEVEL 2 OVERALL CODE PLAN
1/16" = 1'-0"

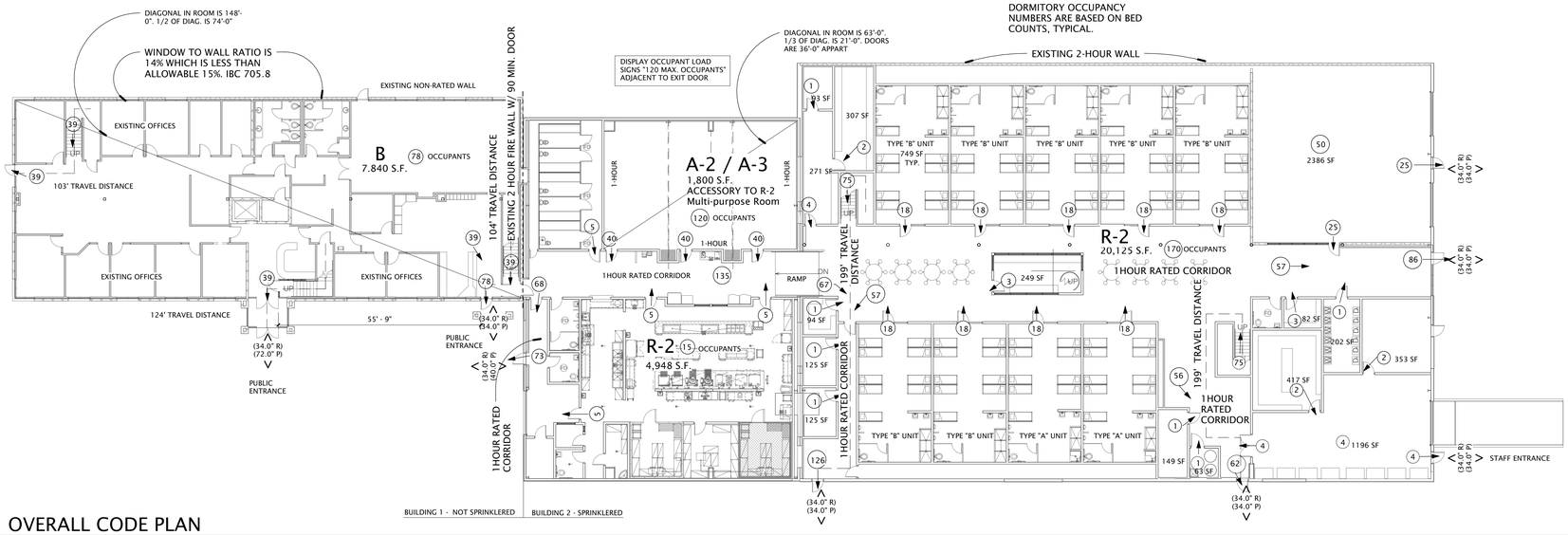
DIAGONAL IN ROOM IS 148'-0". 1/2 OF DIAG. IS 74'-0"

WINDOW TO WALL RATIO IS 14% WHICH IS LESS THAN ALLOWABLE 15%. IBC 705.8

DISPLAY OCCUPANT LOAD SIGNS "120 MAX. OCCUPANTS" ADJACENT TO EXIT DOOR

DIAGONAL IN ROOM IS 63'-0". 1/3 OF DIAG. IS 21'-0". DOORS ARE 36'-0" APPART

DORMITORY OCCUPANCY NUMBERS ARE BASED ON BED COUNTS, TYPICAL.



1 GI-101 LEVEL 1 OVERALL CODE PLAN
1/16" = 1'-0"

GENERAL NOTES

1. THE INFORMATION CONTAINED ON SHEET GI-101, IS INTENDED TO ASSIST THE CODE OFFICIALS WITH THEIR REVIEW OF THE PROJECT FOR COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS. ANY DISCREPANCIES BETWEEN THESE SHEETS AND THE BALANCE OF THE CONSTRUCTION DOCUMENTS MUST BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING.
2. ALL EXITS ARE ACCESSIBLE.

CODE LEGEND

—1HR—1HR—	1 HOUR RATED WALL ASSEMBLY
—2HR—2HR—	2 HOUR RATED WALL ASSEMBLY (NON-PROTECTED OPENINGS)
—2HR1-2HR1—	2 HOUR RATED WALL ASSEMBLY (PROTECTED OPENINGS)
X / (X.X" REQ'D) / (X.X" PROV'D)	OCCUPANTS / REQUIRED EXIT INCHES / PROVIDED EXIT INCHES
	FLOOR CEILING ASSEMBLY
	REQUIRED SIGNAGE DESIGNATION
XX	OCCUPANTS EXITING ROOM/ SPACE
XX	TOTAL OCCUPANTS
(X.X" R) / (X.X" P)	EXIT WIDTH / REQUIRED WIDTH INCHES / PROVIDED WIDTH INCHES
<— —	TRAVEL DISTANCE

STATE OF UTAH
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Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

CODE PLANS

Construction Documents

GI-101

SPECIAL INSPECTION AND TESTING ITEMS
REQUIRED BY CHAPTER 17 OF THE 2009 IBC

Indicate items requiring special inspection or structural testing by checking the appropriate box. All items not requiring inspection/testing should be removed from the form. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases "periodic" inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. The "Detailed Instructions & Frequency" provides a description of the presumed requirements for tasks requiring "periodic" inspections. The design professional in responsible should revise the requirements as needed on a project-specific basis.

FABRICATORS (IBC 1704.2)

☒ Approved Fabricator	Yes	No	☐ Unapproved Fabricator	Yes	No

Fabricators Name:	
Fabricators plant location	
Required In-plant Inspections	☐ Steel Construction ☐ Cold-formed Construction ☐ Concrete Construction ☐ Other: _____ ☐ Wood Construction ☐ Other: _____

STEEL CONSTRUCTION (IBC 1704.3, 1707.2 & 1708.3)

Item			Detailed Instructions and Frequencies
WELDING (1704.3.1)			
Complete & partial penetration groove welds	☒ Continuous	☐ Periodic	
Multi-pass fillet welds	☒ Continuous	☐ Periodic	
Single-pass fillet welds > 5/16"	☒ Continuous	☐ Periodic	
Plug, slot, seam or flange welds	☒ Continuous	☐ Periodic	
Single-pass fillet welds ≤ 5/16"	☐ Continuous	☒ Periodic	Pre-welding inspections are to be performed to ensure that proper materials (i.e. structural steel, weld filler material, etc.), welding procedures, and welding personnel qualifications are appropriate. A visual inspection of all welds must be provided with periodic inspections made of work in progress.
Floor & roof deck welds	☐ Continuous	☒ Periodic	
Shear connector (i.e. stud) welds	☐ Continuous	☒ Periodic	
Cold-formed steel welds	☐ Continuous	☒ Periodic	
Welds of stairs & railing systems	☐ Continuous	☒ Periodic	
DETAILS OF STEEL FRAME (1704.3.2)			
Member locations, bracing, gusset plates, stiffeners and other connection components	☐ Continuous	☒ Periodic	All steel frames shall be inspected to verify compliance with the approved construction documents, such as bracing, stiffening, member size and location, and proper application of joint details at each connection.
HIGH-STRENGTH BOLTING (1704.3.3)			
Snug-tightened joints	☐ Continuous	☒ Periodic	Verify that all joints use proper fastener components, connected elements are fabricated properly, the bolted joint is drawn into firm contact, and that the nuts cannot be removed without the use of a wrench (see Section 9.1 of 2009 RCSC Specification).
STRUCTURAL STEEL (IBC 1707.2 & 1708.3)			

Visual inspection prior to welding	☒ Continuous		
Visual inspection during welding	☒ Continuous		
Visual inspection after welding		☒ Periodic	Verify that welds are clean; welder identification is legible; size, length and location of welds; verify that welds meet acceptance criteria; placement of reinforcement fillets; removal of backing bars and weld tabs as required; and repair activities (see Section Q5.1 of AISC 341-05).
Nondestructive testing	☒ Continuous		
Inspection prior to bolting	☒ Continuous		
Inspection during bolting	☒ Continuous		
Inspection after bolting		☒ Periodic	Document accepted and rejected connections (see Section Q5.3 of AISC 341-05).
Protected zones		☒ Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Section Q5.4 of AISC 341-05).

CONCRETE CONSTRUCTION (IBC 1704.4 & 1708.2)

Item			Detailed Instructions and Frequencies
Reinforcing steel, including prestressing tendons	☐ Continuous	☒ Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	☐ Continuous	☒ Periodic	Verify weldability of reinforcing steel other than A706. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Cast-in bolts & embeds	☒ Continuous	☐ Periodic	
Post-installed anchors or dowels	☐ Continuous	☐ Periodic	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.
Use of required mix design	☐ Continuous	☒ Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 4, 5.2-5.4; and IBC 1904.3, 1913.2, 1913.3.
Concrete sampling for strength tests, slump, air content, and temperature	☒ Continuous	☐ Periodic	
Concrete placement	☒ Continuous	☐ Periodic	

Curing temperature and techniques	☐ Continuous	☒ Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 5.11.3). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
Strength verification	☐ Continuous	☒ Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork	☐ Continuous	☒ Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.
Reinforcement in special moment frames, special structural walls and coupling beams	☐ Continuous	☒ Periodic	Verify that ASTM A 615 reinforcing steel used in these areas complies with ACI 318: 21.1.5.2 by means of certified mill test reports. If this reinforcing steel is to be welded chemical tests shall be performed in accordance with ACI 318: 3.5.2.

SOILS CONSTRUCTION (IBC 1704.7)

Item			Detailed Instructions and Frequencies
Verify subgrade is adequate to achieve design bearing capacity	☐ Continuous	☒ Periodic	Prior to placement of concrete.
Verify excavations extend to proper depth and material	☐ Continuous	☒ Periodic	Prior to placement of compacted fill or concrete.
Verify that subgrade has been appropriately prepared prior to placing compacted fill	☐ Continuous	☒ Periodic	Prior to placement of compacted fill.
Perform classification and testing of compacted fill materials	☐ Continuous	☒ Periodic	All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft² of surface area.
Verify proper materials, densities and lift thicknesses during placement and compaction.	☒ Continuous	☐ Periodic	

SPECIAL CASES (IBC 1704.15) – material alternatives or unusual design applications

Item			Detailed Instructions and Frequencies
Material and installation	☐ Continuous	☒ Periodic	Post installed anchors per the report from an accepted accreditation agency (i.e. ICC-ES).

MECHANICAL & ELECTRICAL COMPONENTS (IBC 1707.7, 1707.8 & 1708.4)

Item			Detailed Instructions and Frequencies
Anchorage of emergency or standby power systems	☐ Continuous	☒ Periodic	Verify that anchorage complies with approved construction documents. Performed by code inspection firm.

Installation of vibration isolation systems having a clearance of ≤¼"	☐ Continuous	☒ Periodic	Verify that installation complies with approved construction documents and manufacturer's recommendations. Performed by code inspection firm.
Designated seismic systems	☐ Continuous	☒ Periodic	Confirm that manufacturer's certificate of compliance conforms to the requirements of Section 13.2.1 of ASCE 7-05. Verify that the label, anchorage or mounting conforms to the manufacturer's certificate of compliance. Performed by code inspection firm.

MISCELLANEOUS AREAS — Detailed Instructions and Frequencies

These inspections are recommended by the Architect/Engineer and approved by DFCM.

Suspended Ceiling Grid Clips	☐ Continuous	☒ Periodic	Performed by code inspection firm.
Suspended Ceiling wire spacing (Seismic)	☐ Continuous	☒ Periodic	Performed by code inspection firm.
Soils for utility trench backfill	☐ Continuous	☒ Periodic	
Seismic supports for duct work and sealing of joints for duct work	☐ Continuous	☒ Periodic	
Seismic supports for electrical raceways, cable trays and lights	☐ Continuous	☒ Periodic	
Seismic supports for plumbing lines including gas, water and steam and condensation	☐ Continuous	☒ Periodic	
Seismic bracing for mechanical units both on slab and suspended	☐ Continuous	☒ Periodic	

Special Inspectors Shall:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet the requirements of IBC 1704.1.2 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hours of performing inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the approved construction documents and applicable codes (see IBC 1704.1.2).

NONSTRUCTURAL COMPONENT CHECKLIST

ITEM DESCRIPTION	*NOT REQUIRED*	*ON CONST. DOCUMENTS*	*DEFERRED SUBMITTAL*	*COMMENTS*
Architectural Components:				
Interior Nonstructural Walls & Partitions		X		
Cantilever Elements *(i.e. parapets, etc.)*		X		
Exterior Nonstructural Wall Elements		X		
Veneer	X			
Penthouses	X			
Ceilings *(i.e. suspended grid or hard-lid)*		X		
Cabinets *(i.e. storage cabinets, equip, etc.)*		X		
Access Floors	X			
Storage Racks	X			
Appendages & Ornamentations	X			
Signs & Billboards	X			
Other:				
Other:				
MEP Components:				
Fire Sprinklers			X	
Mechanical Equipment *(i.e. HVAC, fans, air handlers, boilers, furnaces, tanks, chillers, water heaters, heat exchangers, evaporators, engines, turbines, pumps, compressors, MRI equipment, etc.)*		X		
Electrical Equipment *(i.e. generators, batteries, inverters, transformers, MCC, panel boards, switch gear, cabinets, etc.)*		X		
Elevator & Escalator Components	X			
Communication Equipment, Computers, Instrumentation, and Controls		X		
Roof-mounted Chimneys, Stacks, Cooling & Electrical Towers	X			
Lighting Fixtures		X		
Vibration Isolated Components		X		
Piping & Conduit Systems		X		
Ductwork *(including in-line components)*		X		
Conveyors	X			
Cable Trays	X			
Other:				
Other:				

NOTES:

1. Deferred submittals for seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary.
2. If seismic restraints of non-structural components are installed prior to receiving DFCM approval they shall not be covered or concealed until receiving both plan review and inspection approval. Further, Installers are proceeding at their own risk until plan review and inspection approval occurs.
3. The requirements for seismic restraint of nonstructural components cannot be satisfied by a general reference to Design Manuals. The design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of ASCE 7-05, Chapter 13.
4. Submittals must include details of the proposed seismic restraint of nonstructural components. These details must show specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners. Submittals may also require structural calculations, engineering reports, test data, and/or specifications to ensure code compliance.

Revised: 02/15/2010

DEFERRED SUBMITTALS:	APPROX. DATE
1. STEEL STAIRS	MAY 2012
2. MODULAR DETENTION CELL WALL UNITS	MAY 2012
3. SEISMIC BRACING FOR MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS	MAY 2012
4. FIRE SPRINKLER SYSTEM	MAY 2012
5. DETAILS AND ENGINEERING FOR SUSPENDED GYPSUM BOARD CLG. FRAMING	MAY 2012
6. KITCHEN COOKING AND DISHWASHING HOODS AND ASSOCIATED DUCTWORK	MAY 2012

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Division of Facilities Construction and Management

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SPECIAL INSPECTIONS

Construction Documents

G100

Design No. L524

BXUV.L524

Fire Resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Fire Resistance Ratings - ANSI/UL 263

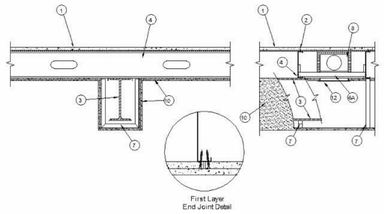
Design No. L524

January 11, 2012

Unrestrained Assembly Rating — 1 Hr.

Unrestrained Beam Rating — 1 Hr.

Load Restricted for Canadian Applications — See Guide BXUV7



1. **Flooring System** — The flooring system shall consist of one of the following:

System No. 1

Finish Flooring — Min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Long edges shall be T & G.

System No. 2

Subflooring — Min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Long edges shall be T & G.

System No. 3

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

Alternate Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

UNITED STATES GYPSUM CO — Levelrock Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

GRASSWORX L L C — Type SC50

Alternate Floor Mat Material* — (Optional) - Floor mat material nominal 3/8 in. thick loose laid over the subfloor. Floor topping shall be a min 3/4 or 1 in. thickness of floor topping mixture for min 19/32 or min 15/32 in. thick wood structural panels respectively.

OWENS CORNING — Type QuietZone Acoustical Floor Mat

Finish Flooring - Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for min 19/32 or min 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1200 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Type LRK

System No. 4

Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF.

System No. 5

Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional)— Nom 6 mm thick floor mat material adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. When floor mat material is used, min thickness of floor topping mixture is 1 in.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials* — (Optional) — Floor mat material nom 10 mm thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/2 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials* — (Optional) — Floor mat material nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in.

HACKER INDUSTRIES INC — Type Quiet Qurl SS/025

Alternate Floor Mat Materials* — (Optional) — Floor mat material nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in.

HACKER INDUSTRIES INC — Type Quiet Qurl 60/040

Alternate Floor Mat Materials* — (Optional) — Floor mat material nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in.

HACKER INDUSTRIES INC — Type Quiet Qurl 65/075

Metal Lath (Optional) — For use with 3/8 in. or 10 mm floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant.

System No. 6

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 62.5 lbs of Pea Gravel, 312.5 lbs of sand with 5-1/2 gal of water.

LITE-CRETE INC — Type I.

System No. 7

Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS — Types UQF-A, UQF-Super Blend, UQF-Plus 2000.

System No. 8

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. When floor mat material is used, min thickness of floor topping thickness is 1 in. Floor topping thickness a min 3/4 in. over Acousti-Mat I floor mat.

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II.

Alternate Floor Mat Materials* - (Optional) — Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP — Type Acousti-Mat 3, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Alternate Floor Mat Materials* - (Optional) — Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP — Type Enkasonic 9110

Alternate Floor Mat Materials* - (Optional) — Nom 0.2 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer may be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat LP-R

Metal Lath (Optional) — For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1 in.

MAXXON CORP — Type Crack Suppression Mat (CSM)

Finish Flooring - Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for min 19/32 or min 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 3 to 7 gal of water to 80 lbs of floor topping mixture to 1.0 to 2.1 cu ft of sand.

MAXXON CORP — Type D-C, GC, GC2000, L-R, T-F, CT.

System No. 9

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. When floor mat material is used, min thickness of floor topping mixture is 1 in. Floor topping thickness a min 3/4 in. over Acousti-Mat I floor mat.

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II.

Alternate Floor Mat Materials* - (Optional) — Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP — Type Acousti-Mat 3, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Alternate Floor Mat Materials* - (Optional) — Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP — Type Enkasonic 9110

Alternate Floor Mat Materials* - (Optional) — Nom 0.2 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer may be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat LP-R

Metal Lath (Optional) — For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1 in.

MAXXON CORP — Type Crack Suppression Mat (CSM)

Finish Flooring - Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for min 19/32 or min 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1200 psi. Mixture shall consist of 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand.

RAPID FLOOR SYSTEMS — Types RF, RFP, RFU, RFR, Ortecrete.

System No. 10

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Finish Flooring - Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 11

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

Alternate Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.

UNITED STATES GYPSUM CO — Levelrock Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.

GRASSWORX L L C — Type SC50

Finish Flooring - Floor Topping Mixture* — Min 1/2 or 3/4 in. thickness of floor topping mixture for min 19/32 or min 15/32 in. thick wood structural panels respectively, having a min compressive strength of 3000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Type HSLRK

System No. 12

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

CELLULAR CONCRETE L L C — Floor Topping Mixture

System No. 13

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ALLIED CUSTOM GYPSUM PLASTERWORKS L L

C — Accu-Crete, AccuRadiant, AccuLevel G40 and AccuLevel SD30.

Alternate Floor Mat Material* - (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively.

ALLIED CUSTOM GYPSUM PLASTERWORKS L L

C — Type AccuQuiet P80, Type AccuQuiet C40, Type AccuQuiet RSM 20, Type AccuQuiet RSM 32, Type AccuQuiet RSM 48, Type AccuQuiet RSM 64, and Type AccuQuiet RSM 120

System No. 14

Subflooring — 15/32 or 19/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

BMI PRODUCTS OF NORTHERN ILLINOIS INC — Maxit 493

System No. 15

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl SS/025 and Quiet Qurl SS/025 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. ¼ in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl SS/025 MT and Quiet Qurl SS/025 N MT

System No. 16

Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the subfloor.

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat 3, Enkasonic 9110, Acousti-Mat LP-R.

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

2. **Flooring Fasteners** — (Not Shown) - The subflooring (first layer) of each floor system and finish flooring of System No. 1 are to be fastened to the steel joists with Type S12 by 1-15/16 in. long self-drilling, pilot point, steel screws. The screws are to be spaced 6 in. OC around the perimeter of the floor and at all end (butt) joints of the panels. Spacing in the field to be 10 in. OC. For flooring System No. 2, the finish flooring is to be fastened to the subflooring with Type S12 by 2 in. long steel screws spaced 6 in. OC around the perimeter of the floor and at all end (butt) joints of the finish flooring panels. Spacing in the field to be 10 in. OC with rows of screws spaced 16 in. OC.

3. **Structural Steel Member** — Min W8 x 15 wide flange steel beam.

4. **Steel Joists** — The joists are channel-shaped, min 7 in. deep with min 1-5/8 in. wide flanges and 1/2 in. long stiffening flanges. The joists are fabricated from min No. 18 MSG galv steel. Min yield strength of steel is either 33,000 or 40,000 psi with corresponding max working stress of 20,000 and 24,000 psi. Joists spaced max 24 in. OC. At joist splices bearing on supports, joists are overlapped a min of 3 in. **When ceiling damper (Item 8) is used, min joist depth is 14 in.**

4a. **Structural Steel Members** — As an alternate to Item 4 - Spaced 24 in. OC proprietary shaped min. 10 in. deep members. Min yield strength of steel is 50,000 psi. At joist splices bearing on supports, member of same size cut to fit and rotated 90* to fit within web. Splice piece is secured in place with min 1/2 in. metal hex head screws #10. Min. 3 screws per each side of the splice section.

LITESTEEL TECHNOLOGIES — Types 1000LSB300-79, 1000LSB300-98, 1000LSB300-118, 1200LSB350-98, 1200LSB350-118, 1200LSB350-134, 1400LSB350-098, 1400LSB350-118, and 1400LSB350-134.

5. **Joist Stiffeners** — (Not Shown) - Channel-shaped stiffeners, made from min No. 18 MSG galv steel. Stiffeners are 6-13/16 in. long, 3-1/2 in. deep with 1-5/8 in. flanges and 1/2 in. stiffening flanges. The joist stiffeners are used at all bearing locations of the joists.

6. **Joist Bridging** — (Not Shown) - Installed immediately after joists are erected and before construction loads are applied. The bridging consisting of joist section cut to length and placed between outer supports, adjacent to openings and at mid span with 8 ft OC max spacing. Bridging channels are screw-attached at each end to joist webs using angle clips. V-bracing of 1-1/2 in. by 20-gal galvanized steel is screw-attached to bottom joist flange between bridging channels.

6A. **Horizontal Joist Bridging** — Used in lieu of Item 6 in same joist bay as ceiling damper (Item 8), when ceiling damper is employed. Joist section cut to length and secured to joists above bottom flanges with Type S12 screws and 1-1/2 by 1-1/2 in. No. 18 MSG galv steel angles.

7. **Beam Cage** — The cage used to support the gypsum board beam protection is fabricated from No. 24 MSG electrogalvanized steel angle with 7/8 by 1-3/8 in. legs and No. 25 MSG, electrogalvanized steel channel studs, 2-1/2 in. wide with 1 in. legs. Angles are fastened to the steel joists using 1/2 in. pan head steel sheet metal screws.

8. **Ceiling Damper*** — (Optional) - Max nom area shall be 198 sq in. Max rectangular size shall be 12 in. wide by 16-1/2 in. long. Max height of damper shall be 8-3/4 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 13) shall be installed in accordance with installation instructions.

RUSKIN CO — Model CFD7

9. **Ceiling Damper Support** — (Not Shown) - Provided with ceiling damper. Support secured to ceiling damper and steel joists in accordance with installation instructions provided with ceiling damper.

10. **Gypsum Board*** — For Ceiling - Two layers of 1/2 in. thick gypsum board installed with long dimensions perpendicular to joists. Base layer attached to steel joists using 1 in. long, Type S12 bugle head steel screws spaced 8 in. OC along butt joints and 12 in. OC in field along the joists. Butt joints to occur beneath joists with screws located 1/2 in. for the butt joints. Outer layer attached to assembly using 1-1/2 in. long, Type G bugle head steel screws spaced 8 in. OC along butt joints and with 1-5/8 in. long, Type S12 bugle head steel screws spaced 12 in. OC in the field along the joists. Butt joints of outer layer to occur between joists with screws located 3/4 in. from the butt joints. Edge joints to be staggered between layers. **For Beam** - Two layers of 1/2 in. thick gypsum board fastened to beam cage. Inner layer secured using 1 in. long, Type S12 bugle head steel screws spaced 12 in. OC and outer layer fastened to cage using 1-5/8 in. long, Type S12 bugle head steel screws spaced 12 in. OC. Joints are to be staggered between layers.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FRPC, Type C

CERTAINTEED GYPSUM CANADA INC — Type C

CGC INC — Type C, IP-X2

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC

LAFARGE NORTH AMERICA INC — Types LGFC-C, LGFC-C/A

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

TEMPLE-INLAND — Type TG-C

UNITED STATES GYPSUM CO — Type C, IP-X2

USG MEXICO S A DE C V — Type C, IP-X2

11. **Steel Framing Members*** — As an alternate to the direct attachment of the Gypsum Board* (Item 10), Steel Framing Members* and Gypsum Board* (Item 12) may be installed beneath the bottom flange of the steel beam.

a. **Main Runners** — Nom 12 ft long, with 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC, installed perpendicular to steel beam. Main runners hung a min of 2 in. below bottom chord of steel beam and secured to steel joists with No. 12 SWG galv steel wire, spaced a max of 48 in. OC.

b. **Cross Tees or Channels** — Nom 4 ft long cross tees, with 15/16 in. or 1-1/2 in. wide face, or nom 4 ft long cross channels, with 1-1/2 in. wide face, either spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall Angles or Channels** — Used to support steel framing member ends and for screw-attachment of the gypsum board. Painted or galvanized steel angles with 1 in. legs or channels with 1 in. legs and 1-9/16 in. deep, attached to walls at perimeter of ceiling with fasteners 16 in. OC.

CGC INC — Type DGL or RX.

USG INTERIORS LLC — Type DGL or RX.

12. **Gypsum Board*** — Two layers of nom 1/2 in. thick by 48 in. wide gypsum board for use with **Steel Framing Members***. Base layer installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Base layer fastened to cross tees with 1-1/4 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. End joints of adjacent gypsum board sheets shall be staggered not less than 4 ft OC. Outer layer attached to the cross tees through inner layer using 1-7/8 in. long Type S bugle-head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints to be centered along cross tees and be offset a min of 32 in. from end joints of inner layer. Rows of screws on both sides of butted end joints of each layer shall be located 3/8 to 1/2 in. from end joints. Butted side joints of outer layer to be offset a min of 18 in. from butted side joints of inner layer.

CGC INC — Type C, IP-X2.

UNITED STATES GYPSUM CO — Type C, IP-X2.

USG MEXICO S A DE C V — Type C, IP-X2.

13. **Grille** — Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

*Bearing the UL Classification Mark

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GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

UL ASSEMBLIES

G200

Design No. P510

BXUV.P510
Fire Resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Fire Resistance Ratings - ANSI/UL 263

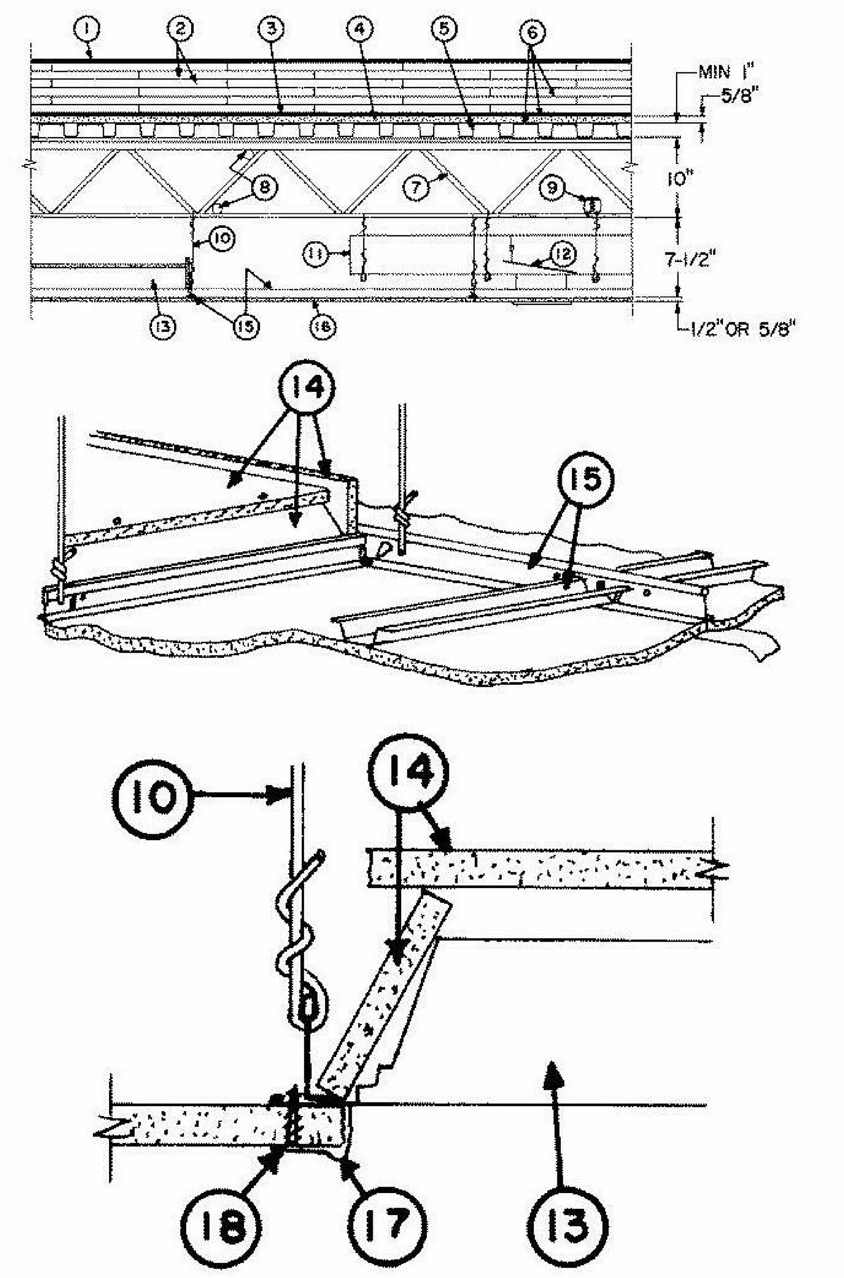
Design No. P510

December 22, 2011

Restrained Assembly Ratings — 1 and 1-1/2 Hr. (See Item 16)

Unrestrained Assembly Ratings — 1 and 1-1/2 Hr. (See Item 16)

Load Restricted for Canadian Applications — See Guide BXUV7



Beam — (Not shown) — W8X13 min size. As alternate to steel beam, **Joist girders** (Not shown)-20 in. min depth and 13 lb/lin ft min weight.

1. **Roof Covering*** — Consisting of hot mopped or cold application materials compatible with insulation(s) described herein which provide Class A, B or C coverings. See **Roofing Materials** and Systems Directory-Roof Covering Materials(TEVT).

1A. **In lieu of Item 1, roof covering consisting of single-ply Roofing Membrane*** — that is either ballasted, adhered or mechanically attached as permitted under the respective Classified company's Classification. See Fire Resistance Directory-Roofing Membranes (CHCI).

1B. **Metal Roof Deck Panels*** — (Not shown) — In addition to or in lieu of Items 1 or 1A, the roof covering may consist of a mechanically fastened metal roof deck panel assembly. See Fire Resistance Directory-Metal Roof Deck Panels* (CETW).

2. **Roof Insulation — Mineral and Fiber Boards*** — 24 by 48 in. to 48 by 96 in., to be applied in one or more layers. Boards to be installed perpendicular to gypsum board (Item 4) direction with end joints staggered 2 ft in adjacent rows. When applied in more than one layer, each layer of board to be offset in both directions from layer below a min of 12 in. in order to lap all joints. Min thickness 1 in. (No limit on max overall thickness).

When only one layer is used it must be bonded to gypsum board (Item 4) or vapor barrier with adhesive. When two or more layers are used the insulation may be fastened to steel roof deck (through gypsum board) with mechanical fasteners provided at least one layer of insulation is used over the mechanical fasteners. The individual layers may be bonded together with adhesive or hot asphalt.

BMCA INSULATION PRODUCTS INC — Permalite.

GAF MATERIALS CORP — Rigid mineral fiber boards — GAFTEMP Perlite.

JOHNS MANVILLE — Rigid mineral fiber boards.

ROXUL INC — MonoBoard™, MonoBoard™ Plus, "MonoBoard Plus S", TopRock®DD, TopRock® DD Plus or TopRock DD Plus S.

SOPREMA INC — SopraRock®MD, SopraRock®MD Plus, SopraRock®DD and SopraRock®DD Plus.

2A. **Foamed Plastic*** — As an alternate to Item 2, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., to be applied in one or more layers. Min thickness is 1.2 in. for the 1 h ratings and 2.0 in. for the 1-1/2 h ratings. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. When applied in more than one layer, each layer to be offset in both directions from layer below a min of 6 in. in order to lap all joints.

ATLAS ROOFING CORP — ACFoam II, ACFoam III, ACFoam-II SL, ACFoam IV.

CARLISLE SYNTEC INCORPORATED — Types HP, HP-H, HP-N, HP-W.

DOW ROOFING SYSTEMS L L C — "Dow Termico Polyisocyanurate Insulation", "Dow Termico ISO 3000 Insulation", "Dow Termico ISO HP-FR".

GENFLEX ROOFING SYSTEMS L L C — "GenFlex ISO"

FIRESTONE BUILDING PRODUCTS CO L L C — "IS0 95+ GL", "ISO 95+ FK", "ISO 95+ GW", "ISO 300", "ISO 95+ CAN", "ISOGARD HD Composite Board"or "RISISTA".

GAF MATERIALS CORP — Isotherm R.

HUNTER PANELS — H Shield

GAF MATERIALS CORP — EnergyGuard RH, Tapered EnergyGuard RH

JOHNS MANVILLE — ENRGY 3, ISO-1, PSI 25.

LOADMASTER SYSTEMS INC — Loadmaster Polyisocyanurate Insulation.

RMAX OPERATING L L C — Multi-Max-3, Multi-Max FA-3, Ultra-Max, Ultra-Max Plus, Tapered Ultra-Max Plus, Tapered Thermaroof-3, Tapered Thermaroof FA-3, Tapered Ultra-Max.

SIKA SARNAFIL INC — Sarnatherm r, Sarnatherm r Ultra, Sarnatherm r Tapered, Sarnatherm r Ultra Tapered.

2B. **Roof Insulation-Foamed Plastic*** — Alternate to Items 2 through 2A. Any thickness polystyrene foamed plastic insulation boards bearing the UL Classification Marking, having a density of 2.5 pcf max, installed on top of min 1 in. thick Mineral and Fiber Boards (Item 2) and covered with either the Built-Up Roof Covering (Item 1) or single-ply roofing membrane (Item 1A). See Foamed Plastic* (BRYX) category in the Building Materials Directory or Foamed Plastic* (CCVW) category in the Fire Resistance Directory for list of Classified companies.

2C. **Building Units** — As an alternate to Items 2 through 2B, polyisocyanurate foamed plastic insulation boards, nom. 48 by 48 or 96 in., faced on the top surface with oriented strand board or plywood. Min. thickness of the polyisocyanurate core is 1.2 in. for the 1 hr. ratings and 2.0 for the 1-1/2 hr. ratings. No limit on max overall thickness. Boards to be installed with end joints staggered a min. of 6 in. in adjacent rows.

ATLAS ROOFING CORP — ACFoam NailBase Insulation, Vented-R, CrossVent.

THE DOW CHEMICAL CO

FIRESTONE BUILDING PRODUCTS CO L L C — Hailgard

JOHNS MANVILLE — Nailboard.

2D. **Building Units*** — As an alternate to Items 2 through 2C, polyisocyanurate foamed plastic insulation boards, min thickness of 1.2 in. for 1 hr ratings and 2.0 in. for the 1-1/2 hr ratings, nom 48 by 48 or 96 in. faced on both sides with mineral and fiber boards. boards to be installed with end joints. Staggered a min of 6 in. in adjacent rows.

ATLAS ROOFING CORP

2E. **Building Units*** — As an alternate to Items 2 through 2D, polyisocyanurate foamed plastic insulation boards faced on the underside (or both sides) with mineral fiber board. Min thickness of the polyisocyanurate core is 1.2 in. for the 1 hr ratings and 2.0 in. for the 1-1/2 hr ratings. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. Adhesive (Item 3) may be applied between the building units and the vapor retarder (or gypsum board (Item 4) if vapor retarder is not used).

FIRESTONE BUILDING PRODUCTS CO L L C — "ISO 95+ Composite" .

JOHNS MANVILLE — Fesco-Foam.

2F. **Building Units*** — As an alternate to Items 2 through 2E, polyisocyanurate foamed plastic insulation boards faced on the underside with wood fiber board. Min thickness of the polyisocyanurate core is 1.2 in. for the 1 hr ratings and 2.0 in. for the 1-1/2 hr ratings. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

FIRESTONE BUILDING PRODUCTS CO L L C — ISO 95+ Wood Fiberboard Composite".

JOHNS MANVILLE — ENRGY-2 Plus.

2G. **Foamed Plastic*** — As an alternate to Items 2 through 2F, extruded polystyrene foamed plastic insulation boards to be placed on top of Roofing Membrane* (Item 1A). Min thickness is 2 in. Max thickness is 8 in. Foamed plastic boards to be covered with crushed stone on concrete pavers at a rate of 10 psf, min.

2H. **Foamed Plastic*** — As an alternate to Items 2 through 2G (for 1 hr. ratings only). Extruded polystyrene foamed plastic boards to be installed in one or more layers over gypsum board (Item 4). Joints of gypsum board to be covered with 4 in. wide foil tape. Min thickness is 1 in. when a min 1/2 in. thick layer of mineral and fiber board (Item 2) is installed on top of the foamed plastic. Min thickness is 3 in. when the mineral and fiber board (Item 2) is omitted. No limit on max thickness. All joints between layers offset min 6 in.

THE DOW CHEMICAL CO

2I. **Building Units*** — Not Shown — As an alternate to Items 2 through 2H, composite polyisocyanurate foamed plastic insulation board with an adhered nailing surface, nom 48 by 48 or 96 in. may be used with the following limitations. These composite building units have ventilation slots internal to the panels. The thickness of the panel depends upon the thinnest portion of the polyisocyanurate insulation. The following dimensions apply to the polyisocyanurate insulation; min. thickness is 1.2 in. for the 1 hr ratings and 2.0 in. for the 1-1/2 in. ratings. There is no limit on the maximum insulation thickness.

GAF MATERIALS CORP — Type INSUL-AIR.

JOHNS MANVILLE — Type ISO-VENT.

2J. **Building Units*** — As an alternate to Items 2 through 2I, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with gypsum board. Min thickness of the polyisocyanurate core is 1.2 in. for 1 hr ratings and 2.0 in. for the 1-1/2 hr ratings. No limit on overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

JOHNS MANVILLE — ENRGY 2 Gypsum Composite.

2K. **Foamed Plastic*** — Optional - (Not Shown) - Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.

FIRESTONE BUILDING PRODUCTS CO L L C — "ISOGARD HD" or "ISOGARD HD Composite Board"

3. **Sheathing Material*** — (Optional) — Vinyl-film vapor barrier, applied with adhesive to gypsum board (Item 4). Adjacent sheets overlapped 2 in.

BMCA INSULATION PRODUCTS INC

3A. **Sheathing Material*** — (Optional) — In lieu of Item 3, a self-adhered rubberized asphalt roofing underlayment membrane which may be placed on top of the gypsum board (Item 4) or on the roof insulation (Item 2 or any non-polystyrene foamed plastic insulation covered as an alternate to Item 2).

W R GRACE & CO - CONN — Grace Ice and Water Shield, Grace Ice and Water Shield-HT®, Grace Select, Grace Ultra, and Grace Basik.

3B. **Sheathing Material*** — (Optional) — In lieu of Items 3 and 3A, a self-adhered rubberized asphalt roofing underlayment membrane which may be placed on top of gypsum board (Item 4) or on the roof insulation (Item 2).

CARLISLE COATINGS & WATERPROOFING

INC — CCW-707.

4. **Gypsum Board** — (Classified or unclassified) — Supplied in sheets nom 2 by 4 ft to 4 by 12 ft, by nom 5/8 in. thick. Min weight 2.0 psf. Applied perpendicular to steel roof deck direction with adhesive. End joints to occur over crests of steel roof deck with end joints staggered 2 ft in adjacent rows.

See Gypsum Board (CKNX) category for names of manufacturers.

5. **Steel Roof Deck** — Min 1 in. deep, 25 in. wide, fluted galv steel deck. Min 0.023 in. thick (24 gauge). Flutes approx 4 in. OC, crests approx 2-3/4 in. wide. Welded to supports with welding washers 12 in. OC. Side laps of adjacent units welded or secured together with No. 12 by 1/2 in. self-drilling, self-tapping steel screws midway between steel joists; or, **Classified Steel Floor and Form Units*** — 1-1/2 in. deep, 24, 30 or 36 in. wide, galv steel units. Min gauge is 22 MSG. Welded to supports with welding washers 12 in. OC. Side laps of adjacent units welded or secured together with No. 12 by 1/2 in. self-drilling, self-tapping steel screws midway between steel joists.

CANAM STEEL CORP — Type P-3606 or P-3615

LOADMASTER SYSTEMS INC — Types ED, HD, PS, SS-200, SS-300.

MARLYN STEEL DECKS INC — Types B, EF, F, HF.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Types B, N. Units may be phos/painted or galvanized.

VULCRAFT, DIV OF NUCOR CORP — Types 1.0E, 1.5A, 1.5B, 1.5BI, 1.5F, 3.0N, 3.0NI .

VALLEY JOIST — Types F, B, BI.

WHEELING-PITTSBURGH STEEL CORP, DIV

OF WHEELING CORRUGATING CO — Types BW, High Strength B, High Strength BW, N, TF-75, -125, -200.

6. **Adhesive*** — Applied between crests of steel roof deck and gypsum board (Item 4) in 1/2 in. wide ribbons 8 in. OC at 0.4 gal per 100 sq ft. Applied in 1/2 in. wide ribbons 6 in. OC, at 0.4 gal per 100 sq ft, between gypsum board and vapor barrier and between vapor barrier and mineral and fiber boards, or directly between gypsum boards and roof insulation when vapor barrier is omitted. May also be applied at the same rate between layers of roof insulation.

BMCA INSULATION PRODUCTS INC

6A. **Mechanical Fasteners** — (Not shown) — Any steel nail or steel clip type fastener with metal or plastic washer designed for the purpose, may be used to attach one or more layers of insulation to steel roof deck (through gypsum board).

6B. **Hot Asphalt or Coal Tar Pitch** — (Not shown) — May be used as an alternate to adhesive between layers of roof insulation at a rate not to exceed 35 lb per 100 sq ft.

7. **Steel Joists** — Type 10J4 or 12K3 min size. As an alternate, LH-Series steel joists spanning no greater than 60 ft. may be used. For spans greater than 60 ft. LH-Series joists may be used provided that their vertical deflection under published total load shall not be greater than 1/244 of the joist span. Joists may be spaced a max 72 in. OC and welded to end supports.

8. **Bridging** — Steel angles or bars, min 1/2 in. diam, welded to top and bottom chords of each joist.

9. **Cold Rolled Channels** — For joist spacings max 48 in. OC, min 0.053 in. thick (16 gauge) painted cold-rolled steel channels, 1-1/2 in. deep with 9/16 in. flanges. For joist spacings greater than 48 in. O.C. but not more than 72 in., min 0.093 in. thick (12 gauge) painted cold rolled steel channels, 2 in. deep with 1-1/8 in. flanges. Two channels tied back to back with 18 SWG galv steel wire 48 in. OC and wire-tied to top of joist bottom chord. Channels spaced as required to provide attachment provision for ceiling hanger wires.

10. **Hanger Wire** — No. 12 SWG galv steel wire tied to lower chord of joists or cold-rolled channels tied face to face with 18 SWG galv wire. Hanger wires spaced not over 48 in. OC, along main runners and located at ends of main runners at walls and at corners and midspan along 4 ft sides of light fixtures.

11. **Air Duct** — Min 0.034 in. thick (20 gauge) galv steel. Total area of duct openings not to exceed 57 sq in. per 100 sq ft of ceiling area. Area of ind duct opening not to exceed 113 sq in. Max dimension of opening 12 in. Duct supported by cold-rolled channels, spaced approx 24 in. OC.

12. **Damper** — Min. 0.056 in. thick (16 gauge) galv steel, 16 by 16 in. protected on both surfaces with 1/16 in. thick ceramic fiber paper and held open with a **Fusible Link.** (Bearing the UL Listing Mark.) Damper to overlap duct outlet 1 in. min.

13. **Fixtures, Recessed Light** — (Bearing the UL Listing Mark) — Fluorescent lamp type, steel housing, 2 by 4 ft size. Fixtures spaced so their area does not exceed 24 sq ft per 100 sq ft of ceiling area. Wired in conformance with the National Electrical Code. Fixtures and ballasts must be considered for these ambient temperature conditions before installation.

13A. **Alternate Fixtures, Recessed Light** — For Use with Steel Framing Members, Item 15B, 15D or 15E - (Bearing the UL Listing Mark). Fluorescent lamp type, NEMA Type F steel housing, 1 by 2 ft, 1 by 4 ft, 2 by 2 ft or 2 by 4 ft size. Fixtures provided with swing-out steel support hooks near each corner designed to engage the bulb of the steel framing member cross tees. Size of steel framing member module to be nominally 2 in. wider and longer than the nominal fixture size. Fixtures to be additionally screw-attached to the web of the cross tees near the center of each long side and at both ends using No. 6 by 2-5/8 in. long (sides) and No. 6 by 1-5/8 in. long (ends) steel drywall screws. Fixtures spaced so their area does not exceed 24 sq ft per each 100 sq ft of ceiling area. Wired in conformance with the National Electrical Code.

13B. **Alternate Fixtures, Recessed Light** — For Use with Steel Framing Members, Item 15- (Bearing the UL Listing Mark). Fluorescent lamp type, NEMA Type F steel housing, 1 by 2 ft, 1 by 4 ft, 2 by 2 ft or 2 by 4 ft size. Fixtures provided with swing-out steel support hooks near each corner designed to engage the bulb of the steel framing member cross tees. Fixtures to be additionally screw-attached to the cross tees near the center of each long side and at both ends using 2 in. long Type S-12 (sides) and 3 in. long Type S-12 (ends) steel screws. Fixtures spaced so their area does not exceed 24 sq ft per each 100 sq ft of ceiling area. Wired in conformance with the National Electrical Code.

14. **Fixture Protection-Gypsum Board*** — 1/2 or 5/8 in. thick, same as Item 16, 16A or 16B. Cut into pieces to form a five sided enclosure for the fixture (Item 13), trapezoidal in cross section, approx 1/2 in. longer and wider than the fixture with sufficient depth to provide at least 1/2 in. clearance between the fixture and enclosure.

14A. **Fixture Protection — Gypsum Board*** — For Use with Steel Framing Members, Item 15B, 15D or 15E - 5/8 in. thick, same as Item 16, 16A or 16B. Cut to form a five sided enclosure, rectangular in cross-section, at least 1-1/4 in. higher than the NEMA Type F light fixture housing (Item 15A). The fixture protection enclosure is to be installed in the grid module prior to installation of the NEMA Type F light fixture. The fixture protection side pieces are to be provided with nominal 1-1/4 in. wide by 3-1/2 in. long cutouts to accommodate the swing-out steel support hooks near each corner of the fixture. The fixture protection side and end pieces rest on the flanges of the primary cross tees and are screw-attached to the web of the cross tee with No. 6 by 1-5/8 in. long steel drywall screws. The top piece rests on the top edges of the side and end pieces without mechanical attachment. The dimensions of the fixture protection pieces for the various sizes of NEMA Type F fixtures are tabulated below:

NEMA Type F Fixture Size	1 by 2 ft	1 by 4 ft	2 by 2 ft	2 by 4 ft
Top Piece, in.	13-1/2 x 25-1/2	13-1/2 x 49-1/2	25-1/2 x 25-1/2	25-1/2 x 49-1/2
Side Piece, in.	7 x 25-1/2	7 x 49-1/2	7 x 25-1/2	7 x 49-1/2
End Piece, in.	7 x 12-1/4	7 x 12-1/4	7 x 24-1/4	7 x 24-1/4

14B. **Fixture Protection — Gypsum Board*** — For Use with Steel Framing Members, Item 15 - 1/2 or 5/8 in. thick, same as Item 16 or 16B. Cut to form a five sided enclosure, rectangular in cross section, for the NEMA Type F light fixture (Item 13B). The fixture protection enclosure is installed around the grid module prior to installation of the NEMA Type F light fixture. The end pieces of the light fixture protection rest upon the flanges additional nom 4 ft long cross tees placed at each end of light fixture opening. The pieces of gypsum board are secured to both cross tees with three 1 in. long Type S screws, one at the center of the cross tee and the remaining two screws spaced 12 in. O.C. in both directions. The end clips of the two additional cross tees are removed and the cross tee/gypsum board combinations are placed at each end of the module facing the light fixture opening with the ends of the cross tees resting on the flanges of the main runner. Two side pieces of the gypsum board protection are notched at the bottom with three 1/4 in. wide by 1-9/16 in. long notches to accommodate the cross tee bulbs. On each side the pieces are installed vertically, resting on the three cross tees intersecting the 50 in. long cross tees and placed 1-1/4 in from the edge of the 50 in. cross tees. The four side pieces of the light fixture protection box are secured together with 6d nails, one at mid-height, and one at each of the four corners. The top piece of gypsum board is loosely-laid on top of the four sided box and secured at each of the four corners with 6d nails. Holes are drilled through the top piece of gypsum board for the attachment of the hanger wires specified in Item 9. Two 4 ft long cross tees are placed on top of the fixture protection box, equally spaced and secured from the underside of the fixture protection box with three 1 in. long Type S screws equally spaced. The dimensions of the fixture protection pieces for the various sizes of NEMA Type F fixtures are listed below:

NEMA Type F Fixture Size	1 by 2 ft	1 by 4 ft	2 by 2 ft	2 by 4 ft
Top piece, in.	19 x 31	19 x 55	31 x 31	31 x 55
Side pieces, in	6 x 30	6 x 54	6 x 30	6 x 54
End pieces, in	6 x 19	6 x 19	6 x 31	6 x 31

15. **Steel Framing Members*** — Main runners, cross tees, cross channels and wall angle as listed below:

a. **Main Runners** — Nom 10 or 12 ft. long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC.

b. **Cross Tees** — Nom 4 ft. long, 1-1/2 in. wide face or 15/16 in. wide face installed at sides of light fixtures (Item 13), installed perpendicular to the main runners, spaced 24 in. OC. When Batts and Blankets* (Item 21) are used, cross tees spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation. When NEMA Type F (Item 13B) light fixtures are used, nom 4ft long cross tees, 1-1/2 in wide face, installed perpendicular to main runners and spaced nom 50 in. O.C. Two nom 50 in. long cross tees, 1-1/2 inch wide face, spaced nom 14 in. O.C. to accommodate nom 1 by 2 ft or 1 by 4 ft NEMA Type F fixture or spaced 26 in. O.C. to accommodate nom 2 by 2 ft NEMA or 2 by 4 ft NEMA Type F fixture. When nom 2 by 2 ft NEMA Type F fixture is used, nom 26 in. long cross tees to be used to form nom 26 in. module at the center of the nom 50 in. long cross tees. Two additional nom 4 ft cross tees, 1-1/2 in. wide face are installed perpendicular to the main runners outside each end of fixture opening to support the end pieces of drywall fixture protection. Small cutoff pieces of cross tees were installed at the center of the nom 50 in. long cross tees and main runners by inserting the dip end into a cross tee slot on the main runner and securing the other end with a pop rivet to the nom 50 in. long cross tee.

c. **Cross Channels** — Nom 4 ft. long, installed perpendicular to main runners, spaced 24 in. OC. When Batts and Blankets* (Item 21) are used, cross channels spaced 16 in. OC.

d. **Wall Angle or Channel** — Painted or galv steel angle with 1 in. legs or 1-9/16 in. deep painted or galv steel channel with 1 in. legs attached to walls at perimeter of ceiling with fasteners 16 in. OC. to support steel framing member ends and for screw-attachment of the gypsum board.

CGC INC — Type DGL or RX.

USG INTERIORS LLC — Type DGL or RX.

15A. **Alternate Steel Framing Members*** — (Not shown) — Main runners nom 12 ft long spaced 48 in. OC. Cross tees nom 4 ft long installed perpendicular to main runners and spaced 24 in. OC. Additional cross tees located 8 in. from and on both sides of each gypsum board end joint and each recessed light fixture.

CHICAGO METALLIC CORP — Types 650, 650C, 670, 670C.

15B. **Alternate Steel Framing Members*** — (Not shown) — As an alternate to Items 15 and 15A. Main runners nom 12 ft long, spaced 48 in. OC. Primary cross tees (1-1/2 in. wide across flange) or cross channels, nom 4 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional primary cross tees or cross channels required at each gypsum board end joint, 8 in. from and on each side of gypsum board end joint, and 8 in. from each side of NEMA Type G (Item 13) light fixtures. Secondary cross tees (15/16 in. wide across flange), nom 4 ft long, installed at sides of NEMA Type G light fixtures. When NEMA Type F (Item 13A) light fixtures are used, nom 4 ft long primary cross tees installed perpendicular to main runners and spaced nom 50 in. OC. Two nom 50 in. long primary cross tees installed perpendicular to nom 4 ft long primary cross tees and spaced nom 14 in. OC to accommodate nom 1 by 2 ft or 1 by 4 ft NEMA Type F fixture or spaced 26 in. OC to accommodate nom 2 by 2 ft or 2 by 4 ft NEMA Type F fixture. When nom 1 by 2 ft or 2 by 2 ft NEMA Type F fixtures are used, nom 14 in. or 26 in. long primary cross tees to be used to form nom 26 in. long modules at the center of the nom 50 in. long primary cross tees. Additional lengths of primary cross tee to be installed at each end of each nominal 50 in. long primary cross tee to create a nominal 14 or 26 in. by 22 or 24 in. module at each end of light fixture module. Ends of these additional lengths of primary cross tee are to engage cross tee routs at end of fixture and are to be riveted to nom 4 ft long cross tee at opposite end. Additional short lengths of primary cross tee to be installed perpendicular to main runners near center of nom 50 in. long cross tee on each side of light fixture. Ends of these additional short lengths of cross tee are to engage rout of main runner at one end and are to be riveted to nom 50 in. long primary cross tee at opposite end. The main runners, cross tees or cross channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000.

15C. **Alternate Steel Members*** — (Not shown) — As an alternate to Items 15, 15A and 15B. For use with 1/2 in. thick gypsum board only. Main runners nom 12 ft long, spaced 48 in. OC. Cross channels, 4 ft. long, installed perpendicular to main runners and spaced 24 in. OC. Additional cross channels required 8 in. from and on each side of gypsum board end joints, and 8 in. from each side of light fixtures. Cross tees, 4 ft. long installed perpendicular to main runners to support the 4 ft sides of light fixtures. J-shaped metal trim molding, installed at perimeter of light fixtures to cover and support the exposed gypsum board edges.

CHICAGO METALLIC CORP — Type 630.

15D. **Alternate Steel Framing Members*** — (Not Shown) — As an alternate to Items 15, 15A, 15B and 15C. For use in corridors or rooms having a maximum width dimension of 14 ft. Steel framing members consist of grid runners, locking angle wall molding and hanger bars. Locking angle wall molding secured to walls with steel nails or screws spaced max 24 in. OC. Slots of locking angle wall molding parallel with hanger bars to be aligned with tabbed cutouts in bottom edge of hanger bars. Hanger bars spaced max 50 in. OC and suspended with No. 12 AWG steel hanger wires spaced max 48 in. OC. Adjoining lengths of hanger bar to overlap 12 in. and to be secured together and suspended by a shared hanger wire. A min clearance of 1/4 in. shall be maintained between the ends of the hanger bars and the walls. Grid runners cut-to-length and installed perpendicular to hanger bars and spaced max 24 in. OC with additional grid runners installed 8 in. OC at gypsum board end joints and adjacent to each side of nom 2 by 2 ft or nom 2 by 4 ft NEMA Type F light fixtures (Item 13A). Grid runners parallel with walls to be spaced max 16 in. from wall. Ends of grid runners to rest on and engage slots of locking angle wall molding with a clearance of 3/8 in. to 1/2 in. maintained between each end of the grid runner and the wall. Bulb of grid runner to be captured by tabbed cutouts in bottom edge of hanger bars. When NEMA Type F light fixtures are used, flange of grid runner on each side of fixture module is to be slit and bent upward 90 deg along the length dimension of the fixture. Nom 24 in. long cross tees with tabbed ends bent 90 deg are to be formed from lengths of grid runner and are to be secured to the grid runner at each end of the fixture module using steel screws or rivets. Additional cross tees, nom 8 in. long with tabbed ends bent 90 deg, are to be formed from lengths of grid runner and are to be secured to the grid runners at the corners and center of each side of the fixture module using steel screws or rivets.

ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000-SS

15E. **Alternate Steel Framing Members*** — (Not Shown) — As an alternate to Items 15, 15A, 15B, 15C and 15D. Main runners nom 12 ft long, spaced 72 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. When NEMA Type F (Item 13A) light fixtures are used, nom 6 ft long cross tees installed perpendicular to main runners and spaced nom 14 in., 26 in. or 50 in. OC, dependent upon fixture size and orientation. Nominal 14 in., 26 in. and/or 50 in. cross tees used in combination with the 6 ft long cross tees to create modules to accommodate nom 1 by 2 ft, 1 by 4 ft, 2 by 2 ft and 2 by 4 ft NEMA Type F fixtures. Additional lengths of cross tee to be installed between the 6 ft long cross tees at each end of each nominal 14 in., 26 in. or 50 in. long cross tee forming a light fixture module. Ends of these additional lengths of cross tee are to engage cross tee routs at end of fixture and are to be riveted to nom 6 ft long cross tee at opposite end. Additional short lengths of cross tee to be installed perpendicular to main runners near center of nom 50 in. long cross tee on each side of 1 by 4 ft or 2 by 4 ft light fixture which is installed with its long dimension parallel with the main runners. Ends of these additional short lengths of cross tee are to engage rout of main runner at one end and are to be riveted to nom 50 in. long cross tee at opposite end. The main runners and cross tees may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000

16. **Gypsum Board*** — (For use with steel framing members described in Items 15 and 15C)— 1/2 and 5/8 in. thick, 4 ft wide, installed with long dimension perpendicular to cross channels with side joints centered along main runners. Gypsum board fastened to cross channels with 1 in. long drywall screws located 1/2 in. from end joints and 1-3/4 in. from each side joint and spaced 12 in. C along the end joints and in the field. End joints of adjacent gypsum board sheets shall be staggered not less than 2 ft. Gypsum board sheets screw-attached to leg of wall angle with drywall screws spaced 12 in. OC.

When alternate **Steel Framing Members*** (Item 15C) are used, gypsum board installed with long dimension (side joints) perpendicular to the cross channels and 4 ft cross tees, and with the side joints centered along the main runners. Gypsum board fastened to cross channels with drywall screws located 1/2 in. from butted end joints, with one screw located at the midspan of the cross channel, one screw located 12 in. from and on each side of the channel midspan, and one screw located 2-3/4 in. from each side joint. End joints of the sheets shall be staggered as described above. Joints to be covered with paper tape and joint compound.

When alternate **Steel Framing Members*** (Item 15D) are used, gypsum board sheets installed with long dimension (side joints) perpendicular to the grid runners with the end joints staggered min 4 ft and centered between grid runners which are spaced 8 in. OC. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide by 48 in. long pieces of gypsum board are to be laid atop the grid runner flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the grid runners at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to grid runners with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. Joints to be covered with paper tape and joint compound.

When alternate **Steel Framing Members*** (Item 15E) are used, gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. Joints to be covered with paper tape and joint compound.

Gypsum Board Thkns In.	Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr
1/2	1 hr	1 hr
5/8	1-1/2 hr	1-1/2 hr

AMERICAN GYPSUM CO — Type AG-C.

CERTAINTEED GYPSUM INC — Type FRPC, Type C.

CERTAINTEED GYPSUM CANADA INC — Type C.

CGC INC — Types C, IP-X2, IPC-AR.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC.

LAFARGE NORTH AMERICA INC — Type LGFC-C, LGFC-C/A.

NATIONAL GYPSUM CO — Types FSK-C, FSW-C.

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM — Type C or PG-C.

PANEL REY S A — Type PRC

TEMPLE-INLAND — Type TG-C.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR.

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR.

16A. **Gypsum Board*** — (For use with steel framing members described in Item 15A) — 1/2 and 5/8 in. thick, 4 ft wide, installed with long dimension perpendicular to cross tees with side joints centered along main runners. Gypsum board fastened to each cross tee with five drywall screws with one screw located at the midspan of the cross tee, one screw located 12 in. from and on each side of the cross tee midspan, and one screw located 1-1/2 in. from each gypsum board side joint. Except at gypsum board end joints, drywall screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, drywall screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with drywall screws, 1/2 in. from side joints, midway between intersections with cross tees (24 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 4 ft OC. Gypsum board sheets screw-attached to leg of wall angle with drywall screws spaced 12 in. OC.

Gypsum Board Thkns In.	Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr
1/2	1 hr	1 hr
5/8	1-1/2 hr	1-1/2 hr

AMERICAN GYPSUM CO — Types AG-C, AGX-C.

CERTAINTEED GYPSUM INC — Type FRPC, Type C.

CERTAINTEED GYPSUM CANADA INC — Type C.

CGC INC — Types C, IP-X2, IPC-AR.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC.

LAFARGE NORTH AMERICA INC — Type LGFC-C, LGFC-C/A.

NATIONAL GYPSUM CO — Types FSK-C, FSW-C.

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM — Types C, PG-C.

PANEL REY S A — Type PRC

TEMPLE-INLAND — Type TG-C.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR.

USG MEXICO S A DE C V — Type C, IP-X2 or IPC-AR.

16B. **Gypsum Board*** — For use when **Batts and Blankets*** (Item 21) and **Steel Framing Members*** (Item 15) are used - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel drywall screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long drywall screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.

CGC INC — Types C, IP-X2, IPC-AR.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR.

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR.

17. **Metal Trim Molding** — Min 0.026 in. thick (22 gauge) galv steel molding, measuring 5/8 in. wide with 9/16 and 1-3/8 in. long legs. Placed on gypsum board edges around light fixtures and secured to the cross tees and main runners with 1 in. long drywall screws. Spacing of screws approx 8 in. O.C. along 4 ft side and 10 in. O C. along 2 ft side of light fixtures.

18. **Drywall Screw** — Type S-12, 1 in. long, self-drilling and self-tapping, 0.163 in. thread diam, 5/16 in. diam heads.

19. **Finishing System** — Paper tape embedded in compound over joints and covered with additional compound. Exposed screw heads covered with compound. Edges of compound feathered out.

20. **Wall Angle** — (Not shown) — Min 0.019 in. thick (26 gauge) galv steel angle with 1-1/8 in. legs, nailed to the walls along perimeter of ceiling to support steel framing member ends and for screw-attachment of the gypsum board.

21. **Batts and Blankets*** — (Optional, Not Shown) - When used, ratings are limited to 1 Hr. - For use with **Steel Framing Members*** (specifically Item 15) and **Gypsum Board*** (specifically Item 16B) - Any thickness mineral wool or glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over steel framing members/gypsum board ceiling membrane.

*Bearing the UL Classification Mark

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PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

UL ASSEMBLIES

G201

Design No. U502

BXUV.U502

Fire Resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

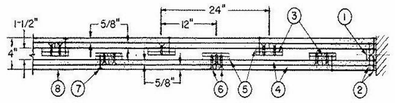
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Fire Resistance Ratings - ANSI/UL 263

Design No. U502

December 15, 2011

Nonbearing Wall Rating — 2 HR.



Horizontal Section

1. **Wood+ or Steel Runner** — 1 1/2X1 5/8-in. yellow pine, or 24 MSG galv steel channels used on sill, lintel, and sides, fastened to concrete or masonry with 1/4-in. bolts and expansion shields or 3 1/2-in. masonry nails, spaced 16 to 20 in. OC.

2. **Nails or Screws** — Used to secure inner layer of wallboard to wood or steel runners. Nails, 5d, 1 5/8 in. long, 1/4 -in. heads, spaced 8 in. OC are used with wood runners. Sheet metal screws, No. 10 or larger, spaced 12 in. OC are used with metal runners, 8d, 2 1/2 in. long, 1/4-in. diam head nails spaced 8 in. OC to secure outer layer of wallboard to wood runners, or No. 10 screws spaced 12 in. OC used with metal runners.

3. **Gypsum Board* Ribs** — 2 layers of min. 1/2 in. thick wallboard glued together with casein type glue to form 6 in. wide ribs, 4 in. less in length than partition height. Located at vertical joints and spaced 24 in. OC, staggered 12 in. from ribs of opposite side.

AMERICAN GYPSUM CO — Type AG-C.

CERTAINTEED GYPSUM INC — Type SF3, EGRG, GlasRoc, Type X, Type C.

CERTAINTEED GYPSUM CANADA INC — Type C.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, DAPC, GPFS1.

LAFARGE NORTH AMERICA INC — Types LGFC-C, LGFC-C/A, LGFC-WD.

NATIONAL GYPSUM CO — Types FSK-C, FSK-G, FSW-C, FSW-G, FSMR-C.

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM — Type PG-3, PG-11.

TEMPLE-INLAND — Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

3A. **Wall and Partition Facings and Accessories* Ribs** — 2 layers of 5/8 in. thick panels glued together with casein type glue to form 6 in. wide ribs, 4 in. less in length than partition height. Located at vertical joints and spaced 24 in. OC, staggered 12 in. from ribs of opposite side.

SERIOUS ENERGY INC — Type QuietRock ES, Type QuietRock QR-527.

4. **Gypsum Board*** — 5/8 in. thick, inner layer, with vertical joints, attached to ribs with glue and screws and to runners with nails or sheet metal screws. Outer layer, with horizontal joints, attached to inner layer with glue, nails, and screws.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C .

BEIJING NEW BUILDING MATERIALS PUBLIC

LTD CO — Type DBX-1.

CERTAINTEED GYPSUM INC — Type FRPC, SF3, Type X or Type C, SilentFX.

CERTAINTEED GYPSUM CANADA INC — Type X or Type Abuse-Resistant.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DA, DAP, DAPC, DGG, DS, GPFS1, GPFS6.

LAFARGE NORTH AMERICA INC — Types LGFC2, LGFC2A , LGFC3, LGFC6, LGFC6A , LGFC-C, LGFC-C/A.

NATIONAL GYPSUM CO — Types FSK-1, FSK-C, FSK-G, FSW-1, FSW-C, FSW-G, FSW-6, FSL.

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM — Types C, PG-3, PG-4, PG-6, PG-9, PG-11, PG-C.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

TEMPLE-INLAND — Types TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

4A. **Wall and Partition Facings and Accessories*** — (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and secured as described in Item 4.

SERIOUS ENERGY INC — Type QuietRock ES, Type QuietRock QR-527.

5. **Adhesive** — Casein type, mixed 4 lbs of dry powder to 1.4 gal of water.

6. **Screws** — No. 8 Phillips head screws. 1-1/2 in. long attaching inner layer to ribs spaced vertically 20 in. OC, 2 in. long attaching outer layer to ribs spaced vertically and horizontally 24 in. OC along edges of boards at the joints.

7. **Nails** — 8d, 2-1/2 in. long finishing nails spaced vertically 8 in. OC and at 45 degree angle attaching outer layer through inner layer to ribs.

8. **Finishing System** — Exposed or covered with fiber tape and joint finisher. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

+When wood runners are used the rating is combustible.

*Bearing the UL Classification Mark

Last Updated on 2011-12-15

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PAROLE VIOLATOR CENTER

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Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

UL ASSEMBLIES

G202

Design No. U419

BXUV.U419

Fire Resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

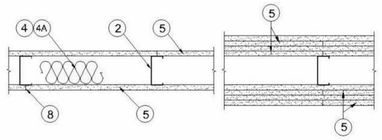
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Fire Resistance Ratings - ANSI/UL 263

Design No. U419

December 09, 2011

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5)



1. **Floor and Ceiling Runners** — (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* - Floor and Ceiling Runners** — Not shown - In lieu of Item 1 — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. Effective thickness is 0.034 in.

CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.

1B. **Framing Members* - Floor and Ceiling Runners** — (Not shown - In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-1/2 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling fasteners 24 in. OC. max. Effective thickness is 0.034 in.

CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.

1C. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack™

MARINO/WARE, DIV OF WARE INDUSTRIES

INC — Viper25™ Track

TELLING INDUSTRIES L L C — Viper25™ Track

1D. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2D, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES

INC — Viper20™ Track

TELLING INDUSTRIES L L C — Viper20™ Track

1E. **Framing Members*— Floor and Ceiling Runners** — (Not shown) — In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP,

BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1F. **Floor and Ceiling Runners** — (Not shown)—For use with Item 2B- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1G. **Framing Members*— Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1) — For use with Items 2F, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA BUILDING SUPPLIES — ProTRAK

SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK

TELLING INDUSTRIES L L C — TRUE-TRACK™

1H. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

SUPER STUD BUILDING PRODUCTS — The Edge

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Framing Members* - Steel Studs** — In lieu of Item 2 - Proprietary channel shaped studs, min. depth as indicated under Item 5, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attachment of gypsum board only. Effective thickness is 0.034 in.

CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.

2B. **Steel Studs** — (As an alternate to Item 2, For use with Items 5B & 5E) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2C. **Framing Members* - Steel Studs** — (As an alternate to Item 2, For use with Items 5C or 5I) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud™

MARINO/WARE, DIV OF WARE INDUSTRIES

INC — Viper25™

TELLING INDUSTRIES L L C — Viper25™

2D. **Framing Members* - Metal Studs** — Not shown - In lieu of Item 2 — For use with Item 1D, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES

INC — Viper20™

TELLING INDUSTRIES L L C — Viper20™

2E. **Framing Members*— Steel Studs** — In lieu of Item 2 - For Use with Item 1E- Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP,

BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2F. **Framing Members*— Steel Studs** — (Not shown, As an alternate to Item 2) —For use with Items 1G, 5F or 5G or 5I only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA BUILDING SUPPLIES — ProSTUD

SOUTHEASTERN STUD & COMPONENTS INC — ProSTUD

TELLING INDUSTRIES L L C — TRUE-STUD™

2G. **Framing Members* - Metal Studs** — Not shown - In lieu of Item 2 — For use with Item 1H, proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

3. **Wood Structural Panel Sheathing** — (Optional, For use with Item 5 Only,)- (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

5. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2D, 2E, 2G and 2F	Min Stud Depth, in. Item 2A	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
1	2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
2	3-1/2	3-5/8	1 layer, 3/4 in. thick	3 in.
3	1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
3	1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
3	1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
4	2-1/2	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board*** — (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or ¾ in. thick products are specified. For direct attachment only to steel studs Item 2B, (not to be used with Item 3) - Nom 5/8 in. or ¾ in. may be used as alternate to all 5/8 in. or ¾ in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or ¾ in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board*** — (For Use With Item 2C) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG MEXICO S A DE C V — Type SCX.

5D. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO — Type USGX.

5E. **Gypsum Board*** — (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2B, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA

NELCO — Nelco

5F. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1G and 2F and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX.

5G. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1G and 2F only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2F	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board*** — (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2B, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board*** — (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

6. **Fasteners** — (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners** — (Not shown) —For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2A). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8-1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems applied vertically:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Two layer systems applied horizontally:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board.

7. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. **Framing Members*** — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V.

7B. **Framing Members*** — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members*** — Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 7). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the steel stud with min. 1 in. long Type S-12 steel screws through the center hole of the clip and the resilient channel flange.

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

7D. **Framing Members*** — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

8. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco** — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants*** — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips** — (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips** — (Not Shown, For Use With Item 5H) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.0625 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

12. **Lead Discs or Tabs** — (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs** — (Not Shown, for use with Item 5H) Max 5/16 in. diam by max 0.0625 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201f, Grade "C".

13. **Lead Batten Strips** — (Not Shown, For Use With Item 5E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs** — (Not Shown, For Use With Item 5E) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*Bearing the UL Classification Mark

Last Updated on 2011-12-09

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133431
REGISTERED ARCHITECT

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

UL ASSEMBLIES

G203

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REVISIONS:

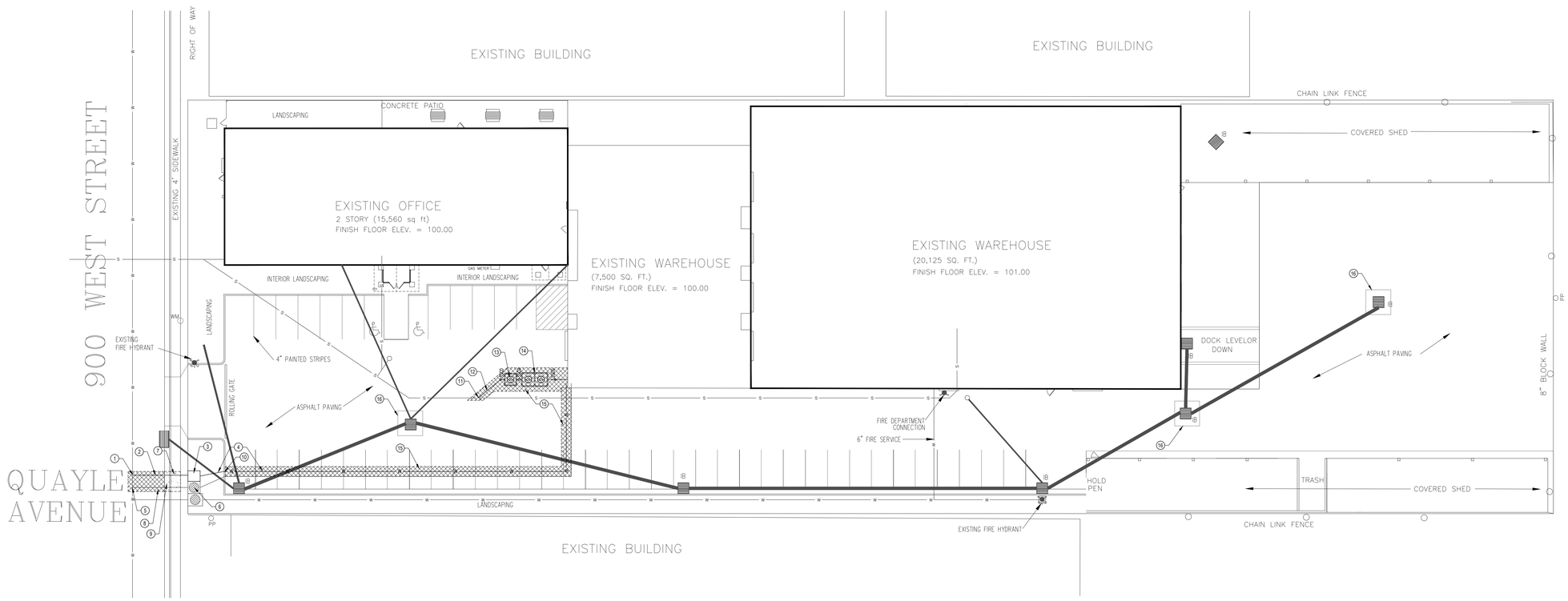
SITE UTILITY PLAN

SCALE: 1"=20'-0"

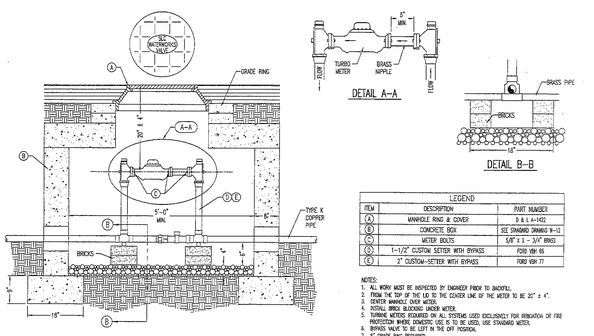
GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.



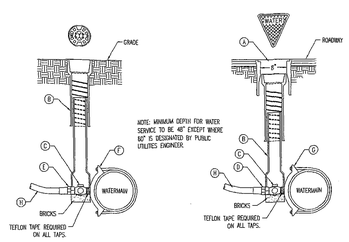
EXISTING UTILITIES SHOWN PER AS-BUILT DRAWINGS. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.



LEGEND		
ITEM	DESCRIPTION	PART NUMBER
A	MANHOLE RING & COVER	D & L A-1432
B	CONCRETE BOX	SEE STANDARD DRAWING W-13
C	METER BOLTS	5/8" X 2 - 3/4" BRASS
D	1-1/2" CUSTOM SETTER WITH BYPASS	FORD VBH 65
E	2" CUSTOM-SETTER WITH BYPASS	FORD VBH 77

NOTES:
1. ALL WORK MUST BE INSPECTED BY ENGINEER PRIOR TO BACKFILL.
2. FROM THE TOP OF THE LID TO THE CENTER LINE OF THE METER TO BE 20" ± 4".
3. CENTER MANHOLE OVER METER.
4. INSTALL BRICK BLOCKING UNDER METER.
5. TURBINE METERS REQUIRED ON ALL SYSTEMS USED EXCLUSIVELY FOR IRRIGATION OR FIRE PROTECTION WHERE DOMESTIC USE IS TO BE USED, USE STANDARD METER.
6. BYPASS VALVE TO BE LEFT IN THE OFF POSITION.
7. 6" GRADE RING REQUIRED.
8. ALLOW A 1" CLEARANCE AROUND WATER LINE WHERE PASSING THROUGH CONCRETE WALLS SEAL HOLE WITH NON-SHRINK SEALANT.
9. SALT LAKE CITY TO SUPPLY WATER METER.
10. MINIMUM DEPTH FOR WATER SERVICE TO BE 48 INCHES EXCEPT WHERE 60" IS DESIGNATED BY ENGINEER.
11. SUBSTITUTIONS: APWA D1436.

STANDARD PLAN W-5
1-1/2" AND 2" SERVICE
SCALE: N.T.S.

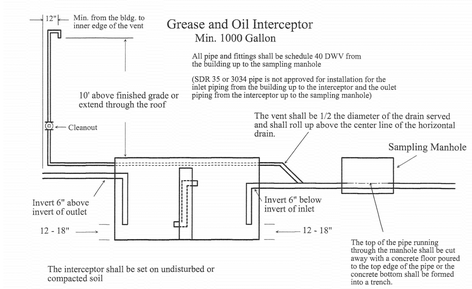


LEGEND		
ITEM	DESCRIPTION	PART NUMBER
A	CONCRETE TRAFFIC BOX	DUN-CRETE 410
B	2-PC. CAST IRON VALVE BOX W/LID	TYLER 6857B
C	CORPORATION STOP	FORD C-BB
D	LOC-PVC COPPER ADAPTER	FORD C 84
E	FLARE COPPER ADAPTER	FORD C 28
F	SERVICE SADDLE CLAMP (D.I.P., A.C., C.I.)	JONES J 819
G	SERVICE SADDLE CLAMP (P.V.C.)	FORD 202 W
H	COPPER PIPE	TYPE K-SOFT

* ON FORD S90 BRASS SADDLES FOR C900 PVC PIPE W/ 1 PC. BRASS STRAP

NOTES:
1. ALL WORK MUST BE INSPECTED BY ENGINEER PRIOR TO BACKFILL.
2. ALL 1-1/2" & 2" SERVICES REQUIRE A 2 PC. CAST IRON VALVE BOX OVER CORPORATION STOP. 6" VALVE BOX IS IN ROADWAY & CONCRETE TRAFFIC BOXES ARE ALSO REQUIRED. A 6" DEEP BY 2' DIA. CONCRETE BOXES TO BE POURED IN SHOPS.
3. BRICK BLOCKING REQUIRED UNDER 1-1/2" & 2" CORP. STOP.
4. BRICK BLOCKING REQUIRED UNDER VALVE BOX TO ASSURE A 1" SPACE BETWEE BEARING ON CORP. STOP.
5. WELL DISTANCE BETWEEN TAPS 24" WITH A MIN. 5' STAGGER.
6. NO TAPS WITHIN 24" FROM THE END OF THE PIPE.
7. ALL SERVICE TAPS ARE TO BE DONE WITH A TAPPING MACHINE APPROVED BY THE ENGINEER.
8. SERVICE SADDLE CLAMP REQUIRED ON ALL TAPS UNLESS OTHERWISE SPECIFIED.
9. SUBSTITUTION, APWA D1530.

STANDARD PLAN W-3
1-1/2" AND 2" SERVICE TAPS
SCALE: N.T.S.



GREASE AND OIL INTERCEPTOR
SCALE: N.T.S.

GENERAL NOTES:

CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL DRAWINGS.

ALL NEW WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS & SPECIFICATIONS.

ALL NEW SANITARY SEWER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS & SPECIFICATIONS.

LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE LOCATIONS. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURE THAT ARE TO REMAIN.

UTILITY ALERT PHONE NUMBERS
WATER & SEWER - SALT LAKE CITY PUBLIC UTILITIES
NATURAL GAS - QUESTAR GAS
ELECTRICAL POWER - ROCKY MOUNTAIN POWER
TELEPHONE - QWEST

KEYED NOTES:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. TAP EXISTING 8" WATER MAIN PER SALT LAKE CITY STANDARD PLAN W-3, THIS SHEET.
2. 2" COPPER TYPE 'K' WATER LINE FROM MAIN LINE TO VAULT.
3. 2" WATER SERVICE METER AND VAULT PER SALT LAKE CITY STANDARD PLAN W-5, THIS SHEET.
4. 3" PVC C-900 WATER SERVICE LINE.
5. DISCONNECT EXISTING WATER SERVICE LINE AT MAIN PER SLCPU.
6. REMOVE EXISTING WATER METER AND VAULT.
7. REPLACE EXISTING SIDEWALK PER APWA STANDARD PLAN #256, MATCH EXISTING SIDEWALK SECTION & GRADES.
8. REPLACE EXISTING ASPHALT PER APWA STANDARD PLAN #255, MATCH EXISTING SECTION & GRADES.
9. REPLACE EXISTING CURB AND GUTTER, MATCH EXISTING SECTION & GRADES.
10. REPLACE EXISTING CONCRETE CURB WALL, MATCH EXISTING SECTION & GRADES.
11. CONNECT TO EXISTING 8" SANITARY SEWER LATERAL PER SLCPU STANDARDS. IE=94.6±. CONTRACTOR TO EXCAVATE AND CONFIRM PRIOR TO CONSTRUCTION.
12. 4" PVC SDR-35 SANITARY SEWER LATERAL @ 2.0% MIN SLOPE, INCLUDING NEW CLEANOUTS AT 100-FOOT MAXIMUM SPACING.
13. SANITARY SEWER SAMPLING MANHOLE PER SLCPU STANDARDS, SEE DETAIL THIS SHEET
RIM=99.26±(MATCH EXISTING) IE IN=94.88± IE OUT=94.81±
14. 1500 GALLON GREASE INTERCEPTOR PER SLCPU STANDARDS, SEE DETAIL THIS SHEET.
W RIM=99.41± (MATCH EXISTING) E RIM=99.48±(MATCH EXISTING)
IE IN=95.21± IE OUT=94.96±
15. PATCH EXISTING ASPHALT, MATCH EXISTING GRADES AND SECTION.
16. INSTALL 5'X5'X6" THICK CONCRETE APRON AROUND EXISTING STORM DRAIN BOX.

AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY.
Call BEFORE YOU Dig
1-800-662-4111

NOTICE!
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

McNEIL ENGINEERING
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THEODORE J. DIDAS
STATE OF UTAH
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PAROLE VIOLATOR CENTER

1747 SOUTH 900 WEST

Division of Facilities Construction and Management

THE GREAT SEAL OF THE STATE OF UTAH 1896

DRAWN BY:	JAT
CHECKED BY:	TJD
OWNER PROJECT NO.:	
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	03/19/2012

CONSTRUCTION DOCUMENTS
UTILITY PLAN

DESIGN DEVELOPMENT

CU-101

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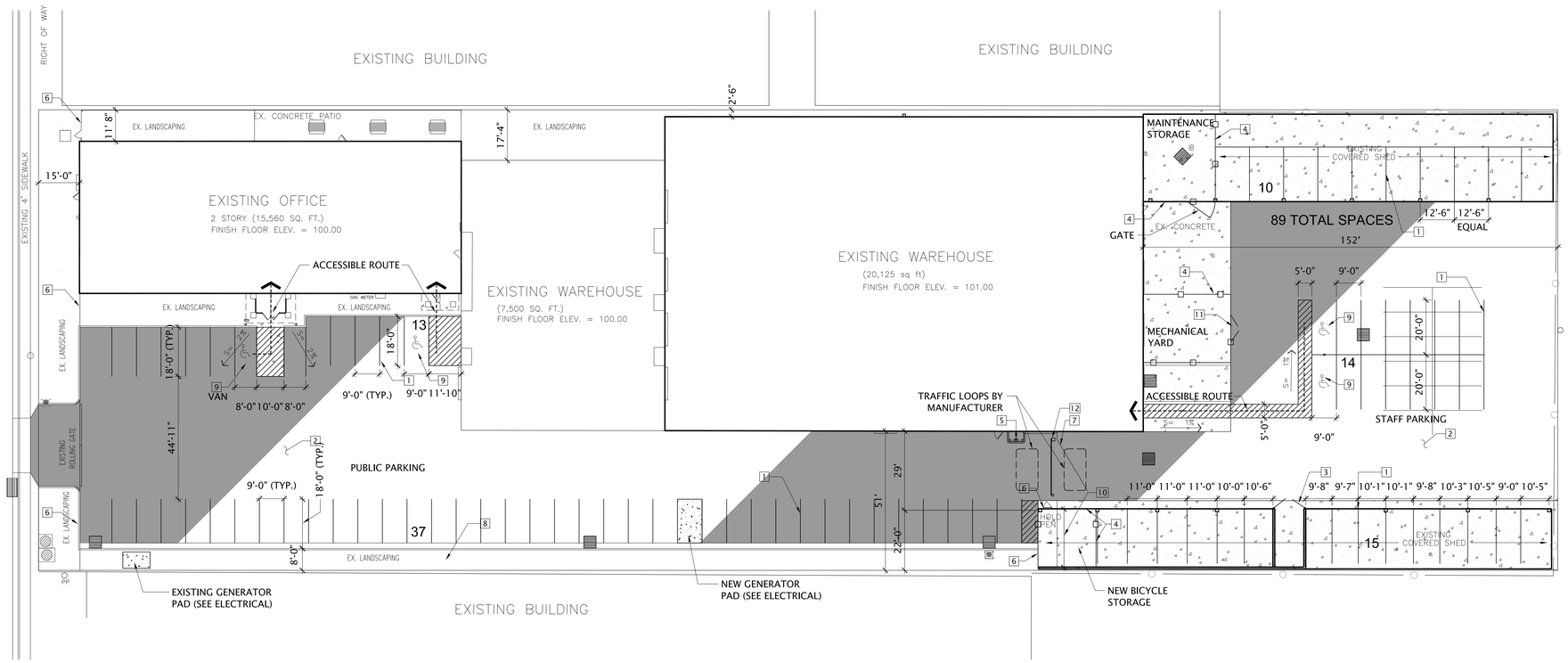
REVISIONS:

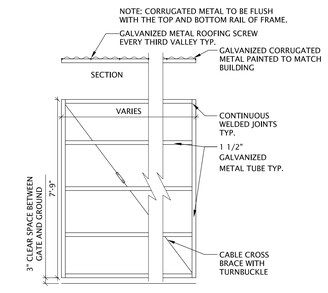


SITE PLAN

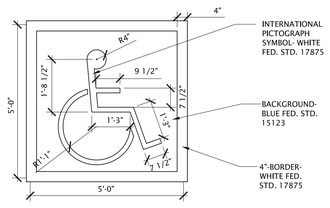
SCALE: 1"=20'-0" (1 / A1.0)

PARKING ANALYSIS

1 CAR/4 RESIDENTS:	77 CARS
1 CAR/2 STAFF:	12 CARS
TOTAL COUNT:	89 CARS
ACCESSIBLE STALLS REQUIRED:	4 CARS
ACCESSIBLE STALLS PROVIDED:	3 CARS, 1 VAN



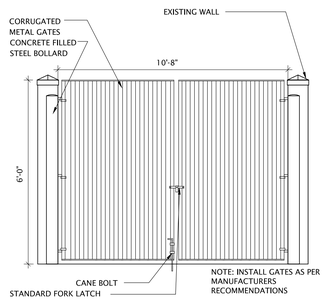
5 GATE FRAME
3/8" = 12" — 323001-12



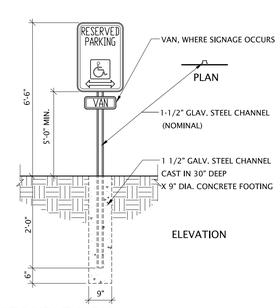
3 ACCESSIBLE STRIPING
1/2" = 1'-0" — SIGNAGE-METAL_SIGN-010379-06

REFERENCE NOTES SCHEDULE

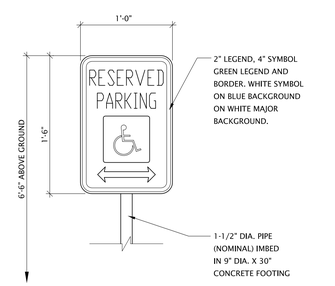
SYMBOL	DESCRIPTION
1	PARKING LOT STRIPING
2	SLURRY COAT OVER EXISTING ASPHALT PAVING (TYP.) - SEE SPECIFICATIONS
3	TRASH ENCLOSURE GATE - SEE DETAILS 4 & 5
4	CHAIN LINK FENCING 8' HT. - SEE SPECIFICATIONS
5	AUTOMATIC GATE OPERATOR WITH CARD READER - SEE SPECIFICATIONS
6	EXISTING FENCE TO REMAIN
7	EXISTING SINGLE LEAF GATE TO REMAIN
8	EXISTING LANDSCAPE AND IRRIGATION TO REMAIN
9	ACCESSIBLE PARKING AND SIGNAGE - SEE DETAILS 1,2, & 3
10	EXISTING FENCE TO BE REMOVED
11	10' (2) LEAF CHAIN LINK GATE - SEE SPECIFICATIONS
12	20' ARM GATE WITH SUPPORT BOLLARD - SEE SPECIFICATIONS



4 TRASH ENCLOSURE GATE
NTS — 323001-11



2 ACCESSIBLE SIGN
1/2" = 12" — 010379-05



1 ENLARGED ACCESSIBLE SIGN
1 1/2" = 12" — 010379-04

LICENSED LANDSCAPE ARCHITECT
DAVID G. GARCIA
NO. 5403499-5301
Renewal Date 12/31/11
Date
STATE OF UTAH

PAROLE VIOLATOR CENTER

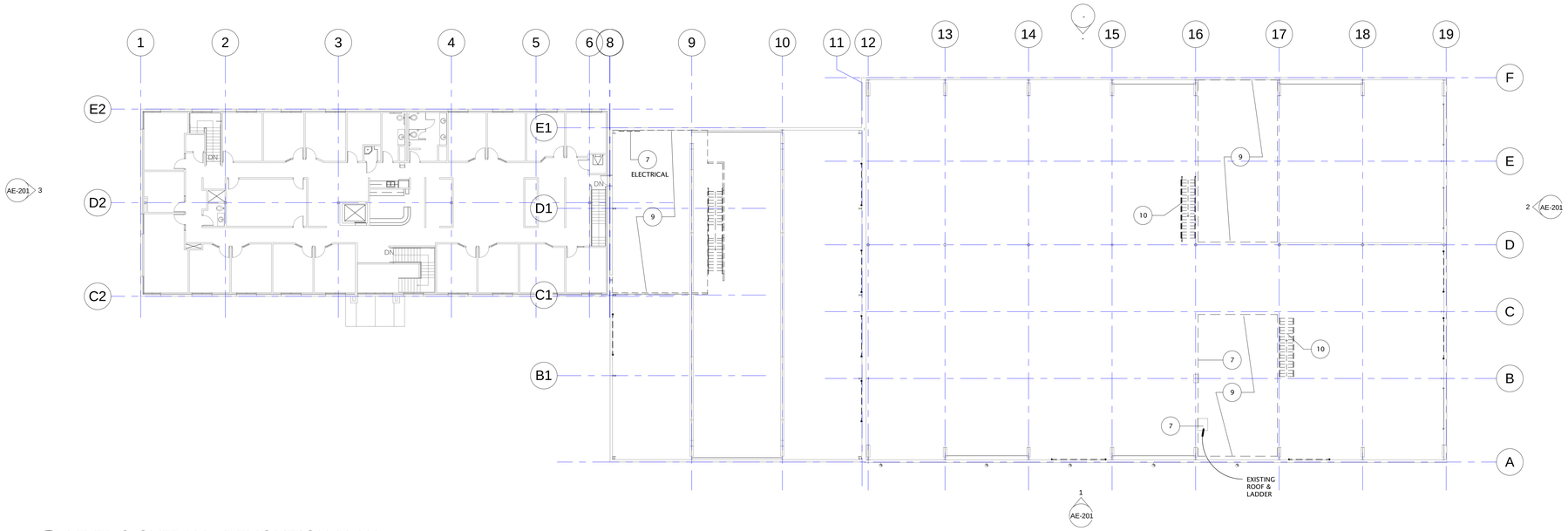
Division of Facilities Construction and Management

DRAWN BY:	EJS
CHECKED BY:	DG
OWNER PROJECT NO.:	
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	2.17.12

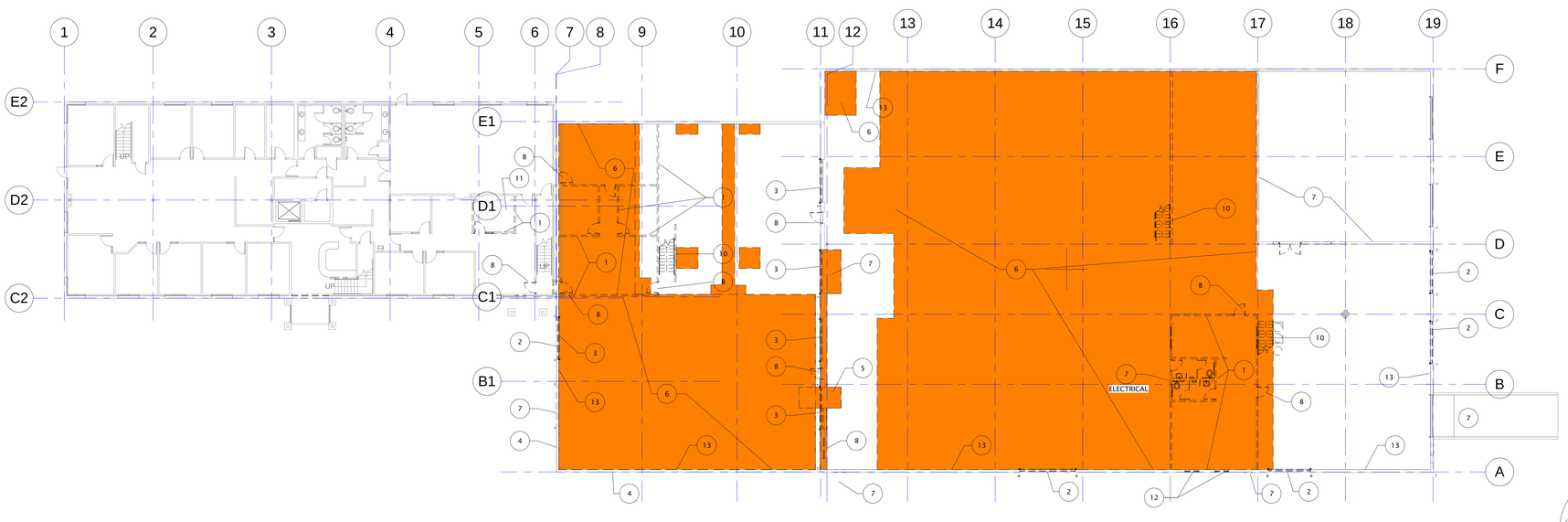
SITE PLAN

CONSTRUCTION DOCUMENT

A1.0



2 LEVEL 2 OVERALL- DEMOLITION PLAN
AD-101 1/16" = 1'-0"



1 LEVEL 1 OVERALL-DEMOLITION PLAN
AD-101 1/16" = 1'-0"

NORTH

DEMOLITION GENERAL NOTES
DEMOLITION GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.

A. REMOVE ALL WALLS, DOORS, FRAMES, EQUIPMENT AND BUILDING ELEMENTS SHOWN DASHED ON DEMOLITION PLANS. DEMOLITION REFLECTED CEILING PLANS AND DEMOLITION ROOF PLANS. REMOVE ELEMENTS AND FINISHES THAT PREPARE THE WORK TO APPEAR AS ILLUSTRATED IN THE PLANS, ELEVATIONS, SECTIONS AND OTHER DETAILS ACCORDING TO THE INTENT SHOWN.

B. REMOVE MASONRY OR CONCRETE ELEMENTS BY SAWCUT WHERE OTHER REMOVAL METHODS WOULD CREATE A RAGGED OR INCONSISTENTLY SMOOTH, PLUMB, LEVEL OR STRAIGHT CONDITION IN SURROUNDING MATERIALS TO REMAIN.

C. WALLS, DOORS, FRAMES, EQUIPMENT AND BUILDING ELEMENTS SHOWN AS SOLID LINES ON DEMOLITION PLANS ARE ELEMENTS TO REMAIN.

D. DO NOT DAMAGE ELEMENTS TO REMAIN.

E. SELECTIVELY REMOVE PORTIONS OF THE WORK ADJACENT TO BUILDING ELEMENTS TO REMAIN TO PROVIDE CLEAN, PLUMB OR LEVEL JOINTS THAT WILL CONCEAL THE JOINT BETWEEN EXISTING ELEMENTS TO REMAIN AND THE NEW WORK. REMOVE ANY EVIDENCE OF REMOVED ELEMENTS AT SURFACES TO REMAIN BY GRINDING OR OTHER APPROPRIATE MECHANICAL REMOVAL METHODS. FILL, PATCH AND REPAIR EXISTING SURFACES TO REMAIN TO MATCH SURROUNDING EXISTING CONDITIONS.

F. REMOVE OUTLETS, ELECTRICAL BOXES, TELEPHONE, DATA AND COMMUNICATIONS BOXES, INCLUDING WIRE AND CONDUITS, IN WALLS THAT ARE SHOWN TO BE REMOVED.

G. DEMOLITION WORK IS SHOWN GENERALLY FOR INTENT. ALL DEMOLITION WORK IS NOT SHOWN. COORDINATE ALL DEMOLITION WORK FOR EVERY TRADE WITH THE CONSTRUCTION MANAGER. PROVIDE COORDINATION DRAWINGS AS REQUIRED TO ACCOMPLISH THE WORK IN A COORDINATED MANNER.

H. OWNER WILL SELECTIVELY REMOVE EXISTING FURNISHINGS PRIOR TO CONSTRUCTION.

I. PATCH, REPAIR, SAND, CLEAN AND PREPARE ALL SURFACES PROPERLY, PRIOR TO PAINTING OR REFINISHING.

J. MAINTAIN SAFE EGRESS AND CONDITIONS FOR OCCUPANTS OF BUILDING DURING THE WORK.

K. INSTALL NEW FIRE SPRINKLERS, SECURITY SYSTEMS, INTERCOM, FIRE ALARM, DATA/COMMUNICATION LINES, AND OTHER SUCH INFRASTRUCTURE BY THE BEST MEANS AND METHODS TO INSTALL THESE ELEMENTS ABOVE EXISTING AND NEW CEILINGS, WHERE POSSIBLE. WHERE CONSTRUCTION DOES NOT ALLOW NEW ELEMENTS TO BE INSTALLED ABOVE CEILINGS, THEN ORGANIZE THE NEW WORK TO FIT THE SPACE IN A NEAT, COMPACT, ORGANIZED MANNER, THAT CONFORMS TO EXISTING CONDITIONS AND FITS THE NEW WORK TIGHTLY TO THE EXISTING BUILDING. NEW INFRASTRUCTURE LINES CANNOT BE RUN ANYWHERE SUBCONTRACTORS SELECT AND THE NEW LAYOUTS WHERE EXPOSED MUST BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO PROCEEDING. PAINT ALL NEW MATERIALS TO MATCH COLOR AND FINISH OF SURROUNDING SUBSTRATES WHERE THE NEW WORK IS EXPOSED TO VIEW.

DEMOLITION KEYNOTES

1. REMOVE EXISTING WALL COMPLETELY. PATCH AND REPAIR ALL SURFACES IMPACTED BY WALL REMOVAL AND FINISH TO MATCH EXISTING CONDITIONS TO REMAIN OF SURROUNDING MATERIALS. SEE GENERAL NOTES ABOVE.

2. REMOVE DOOR, FRAME, TRIM AROUND OPENING AND CUT EXISTING WALL PANELS AROUND OPENING COMPLETE. REMOVE PORTIONS OF EXISTING OPENING FRAMING FROM EXISTING METAL BUILDING FRAMING SYSTEM IF REQUIRED, TO CREATE A NEW WALL WITH NEW METAL BUILDING SUBFRAMING, WINDGIRTS AND ANCHORING STRUCTURE FOR NEW WALL PANELS WHERE DOORS HAVE BEEN REMOVED. PROVIDE WALL PANELS TO MATCH EXISTING WALL PANELS. PROVIDE NEW INSULATION AND VAPOR BARRIER TO EXISTING WALLS TO MATCH EXISTING INSULATION AND VAPOR BARRIER WHERE DOORS HAVE BEEN REMOVED. PROVIDE NEW METAL BUILDING TRIM AS REQUIRED FOR A COMPLETE INSTALLATION OF ALL EXTERIOR AND METAL BUILDING WALL ELEMENTS. SEAL AROUND ALL NEW ENVELOPE ELEMENTS FROM THE WEATHER AND TO CREATE AN AIR BARRIER BETWEEN THE EXTERIOR AND INTERIOR.

3. REMOVE EXISTING ROOL-UP DOORS, TRACKS AND MOTORS IN THEIR ENTIRETY . MAINTAIN EXIST. WALLS AROUND DOOR REMOVAL.

4. REMOVE METAL PANELS AND METAL BUILDING SUBSTRUCTURE AROUND NEW EXTERIOR WALL OPENINGS AND OR CUT EXISTING WALL PANELS AROUND NEW OPENINGS COMPLETE. REMOVE PORTIONS OF EXISTING WALL FRAMING FROM EXISTING METAL BUILDING FRAMING SYSTEM IF REQUIRED, TO CREATE A NEW WALL WITH NEW OPENINGS, NEW OR REMODELED METAL BUILDING SUBFRAMING, WINDGIRTS AND ANCHORING STRUCTURE FOR NEW DOORS AND WALL PANELS WHERE NEW EXTERIOR OPENINGS NEED TO BE PROVIDED. SEE NEW FLOOR PLANS AND ELEVATIONS.
PROVIDE NEW METAL BUILDING TRIM AS REQUIRED FOR A COMPLETE INSTALLATION OF ALL EXTERIOR AND METAL BUILDING WALL ELEMENTS. SEAL AROUND ALL NEW ENVELOPE ELEMENTS FROM THE WEATHER AND TO CREATE AN AIR BARRIER BETWEEN THE EXTERIOR AND INTERIOR.

5. REMOVE EXISTING CONCRETE RAMP. PATCH FLOOR BACK TO MATCH EXISTING ELEVATIONS. DOWELS TO TIE CONCRETE SLABS TO EXISTING.

6. COORDINATE ALL NEW UTILITY OR INFRASTRUCTURE WORK BELOW THE EXISTING FLOOR SLAB PRIOR TO CONSTRUCTION. PROVIDE A FLOOR CUT COORDINATION DRAWING TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. COORDINATE THE WORK BELOW SLAB WITH ARCHITECTURAL, STRUCTUREAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. MAKE ADJUSTMENTS TO LAYOUT OF CONDUITS, PIPES TO FIT STRUCTURE, EXISTING CONDITIONS AND THE ARCHITECT'S REQUIREMENTS FOR AN ORDERLY APPEARANCE OF THE EXISTING AND NEW EXPOSED CONCRETE FLOOR STRUCTURE, WHERE IT OCCURS.
CONSOLIDATE SAW CUTTING TO REDUCE EXTRANEOUS SAW CUTTING AND PATCHING OF THE FLOOR. PROVIDE NEW STEEL DOWELS TO TIE THE NEW CONCRETE SLABS TO THE EXISTING CONCRETE FLOOR SLABS TO PREVENT DIFFERENTIAL SETTLING OF THE FLOOR.

7. PROTECT EXISTING ELEMENT TO REMAIN.

8. REMOVE EXISTING MAN DOOR OR WINDOW FRAME, PROTECT ADJACENT EXISTING WALLS.

9. REMOVE ENTIRE EXISTING MEZZANINE CONSTRUCTION. PROTECT ADJACENT REMAINING STRUCTURE.

10. REMOVE STAIRWAY CONSTRUCTION IN FULL. PROTECT ADJACENT REMAINING STRUCTURE.

11. REMOVE EXISTING SUSPENDED CEILING, SALVAGE LIGHTS AND REGISTERS FOR RE-INSTALLATION. EXTEND EXISTING ADJACENT SUSPENDED CEILING FOR THIS AREA.

12. REMOVE EXISTING EXTERIOR WINDOWS, FRAME, TRIM AROUND OPENING AND CUT EXISTING WALL PANELS AROUND OPENING COMPLETE. REMOVE PORTIONS OF EXISTING OPENING FRAMING FROM EXISTING METAL BUILDING FRAMING SYSTEM IF REQUIRED, TO CREATE A NEW WALL WITH NEW METAL BUILDING SUBFRAMING, WINDGIRTS AND ANCHORING STRUCTURE FOR NEW WALL PANELS WHERE DOORS HAVE BEEN REMOVED. PROVIDE WALL PANELS TO MATCH EXISTING WALL PANELS. PROVIDE NEW INSULATION AND VAPOR BARRIER TO EXISTING WALLS TO MATCH EXISTING INSULATION AND VAPOR BARRIER WHERE DOORS HAVE BEEN REMOVED. PROVIDE NEW METAL BUILDING TRIM AS REQUIRED FOR A COMPLETE INSTALLATION OF ALL EXTERIOR AND METAL BUILDING WALL ELEMENTS. SEAL AROUND ALL NEW ENVELOPE ELEMENTS FROM THE WEATHER AND TO CREATE AN AIR BARRIER BETWEEN THE EXTERIOR AND INTERIOR.

13. REMOVE EXISTING PLYWOOD ENTIRELY ON STUD WALL CONSTRUCTION, WALLS TO REMAIN, ADD VAPOR BARRIER OVER EXISTING INSULATION. REPAIR INSULATION WHERE DAMAGED OR MISSING PRIOR TO INSTALLATION OF VAPOR BARRIER AND 5/8" GYP. BD..

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Division of Facilities Construction and Management

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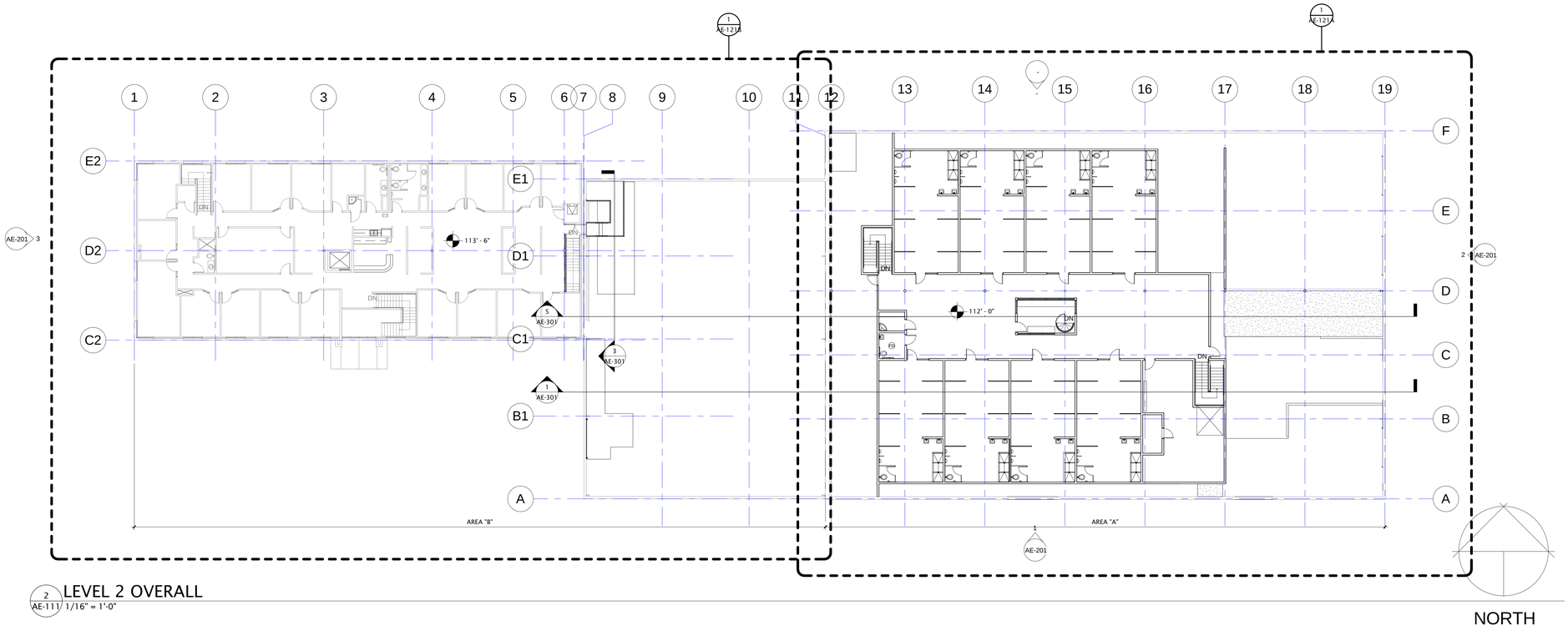
OVERALL PLANS-DEMOLITION

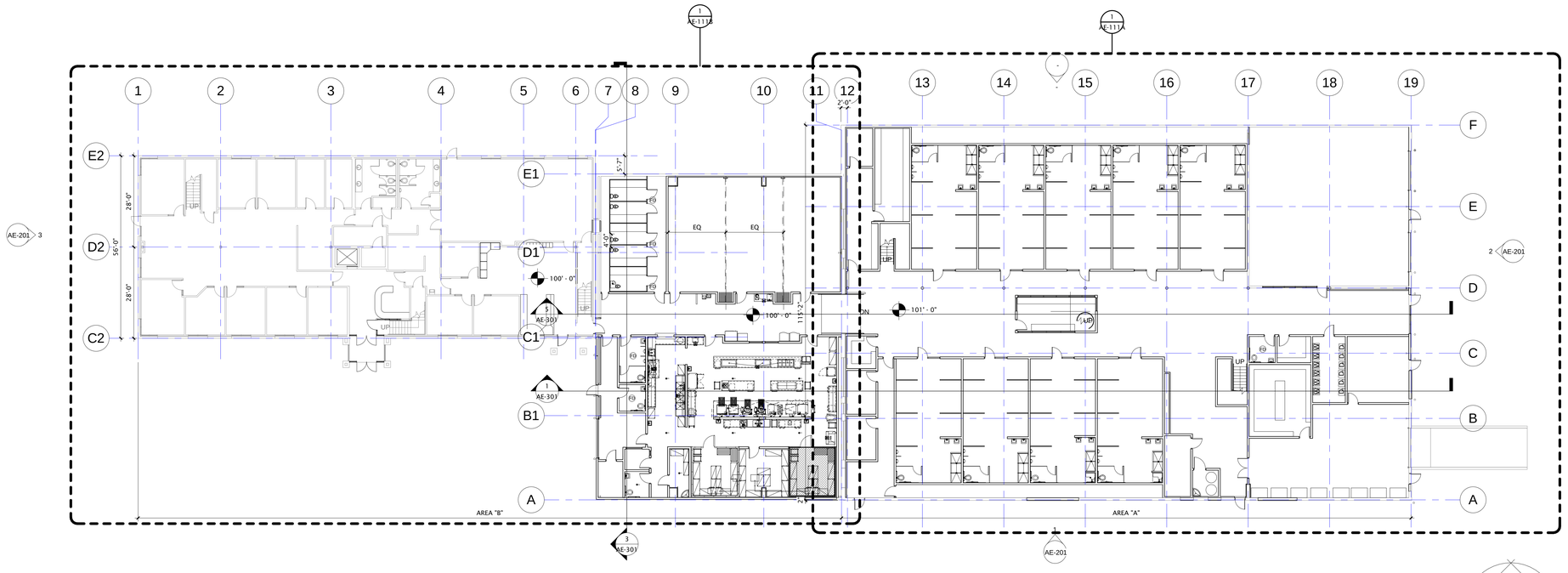
Construction Documents

AD-101



2 AE-111 LEVEL 2 OVERALL
1/16" = 1'-0"

NORTH



1 AE-111 LEVEL 1 OVERALL
1/16" = 1'-0"

NORTH

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OVERALL PLANS- LEVEL 1 & LEVEL 2

Construction Documents

AE-111

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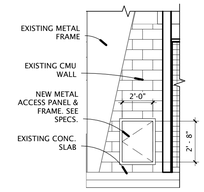
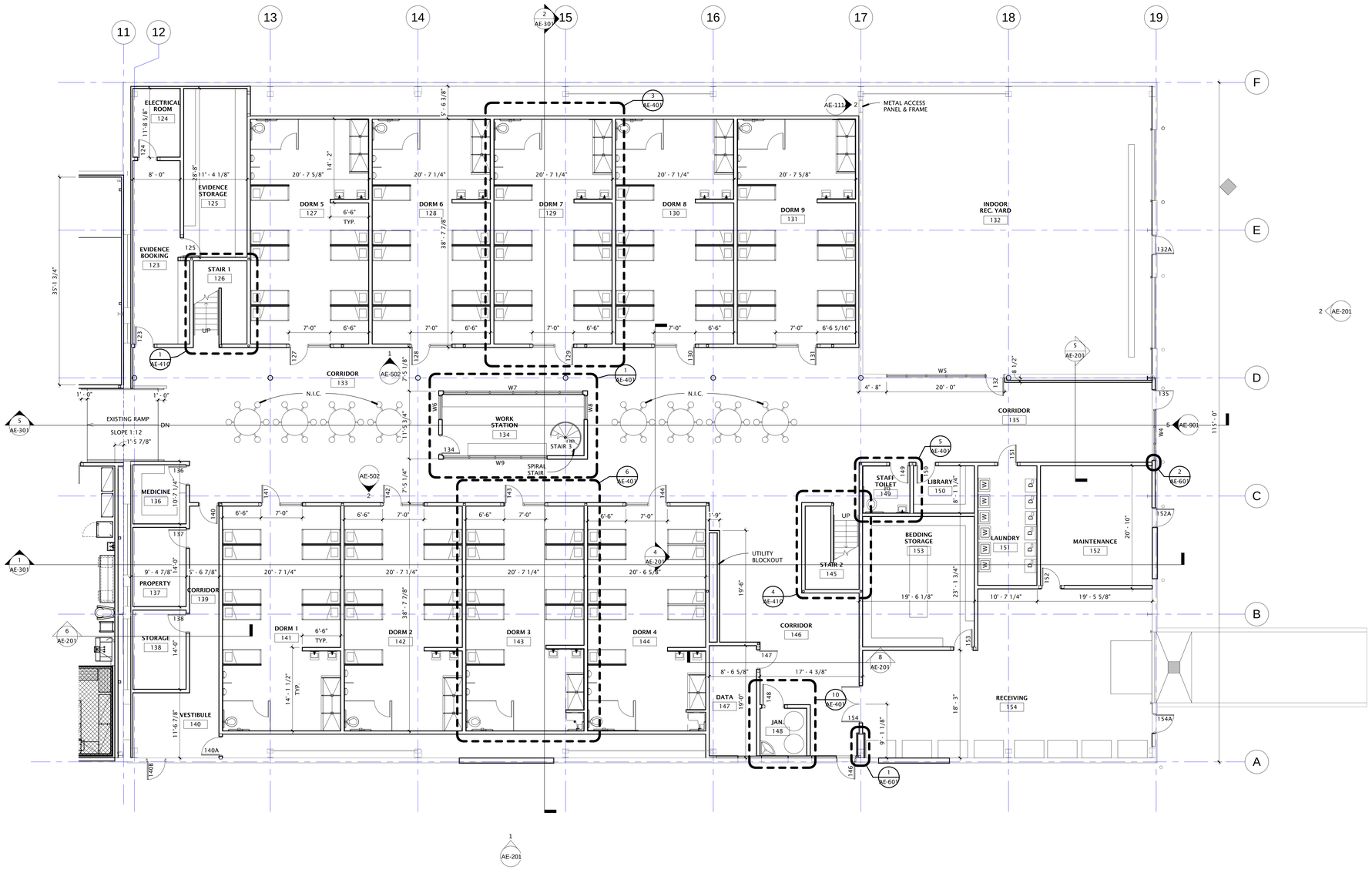


2 AE-111A METAL ACCESS PANEL ELEVATION
1/4" = 1'-0"



1 AE-201 LEVEL 1 - AREA "A" FLOOR PLAN
1/8" = 1'-0"

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FLOOR PLAN- LEVEL 1 AREA "A"

Construction Documents

AE-111A

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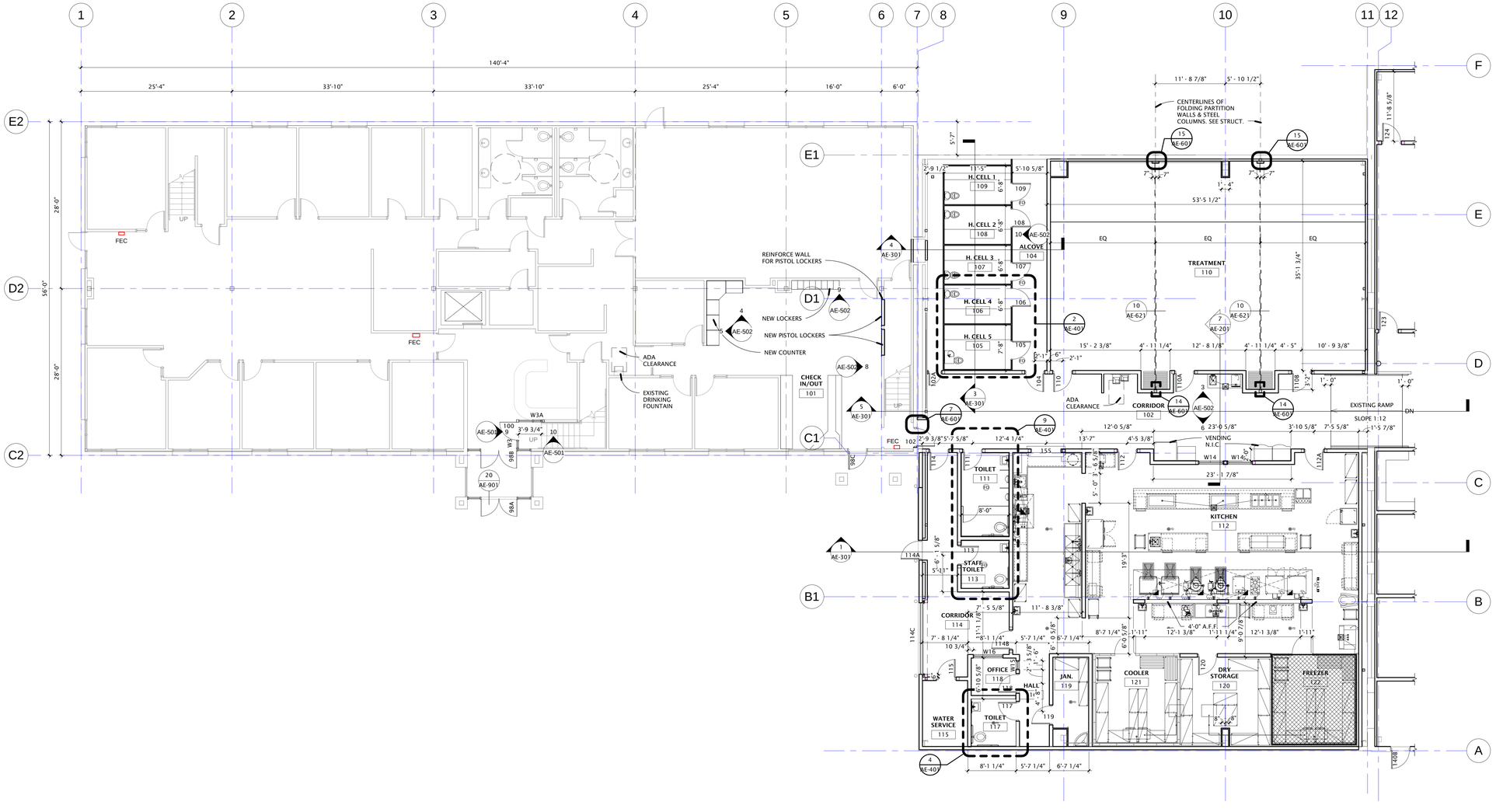

1 LEVEL 1- AREA "B" FLOOR PLAN
AE-111B 1/8" = 1'-0"

NORTH

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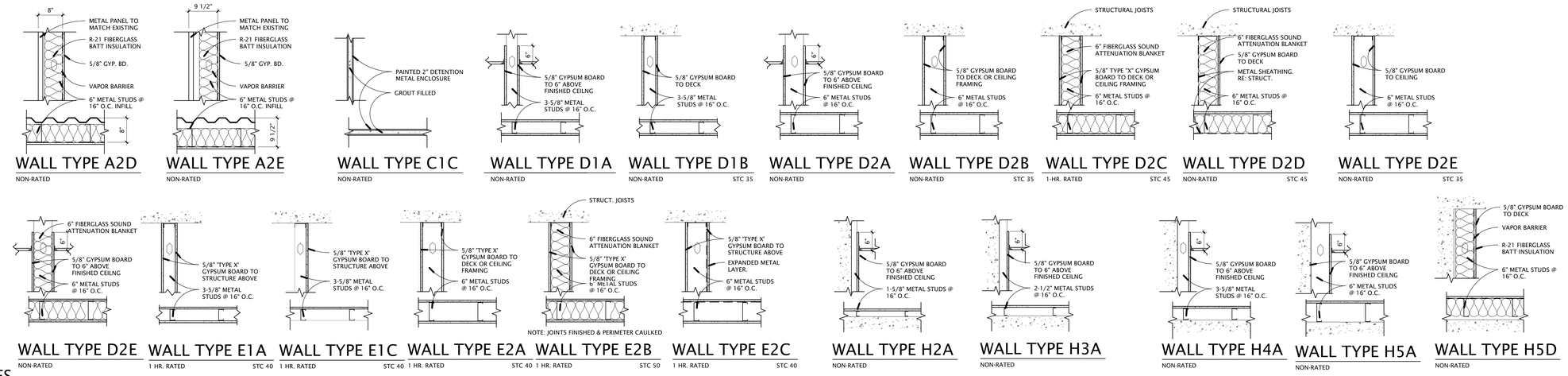
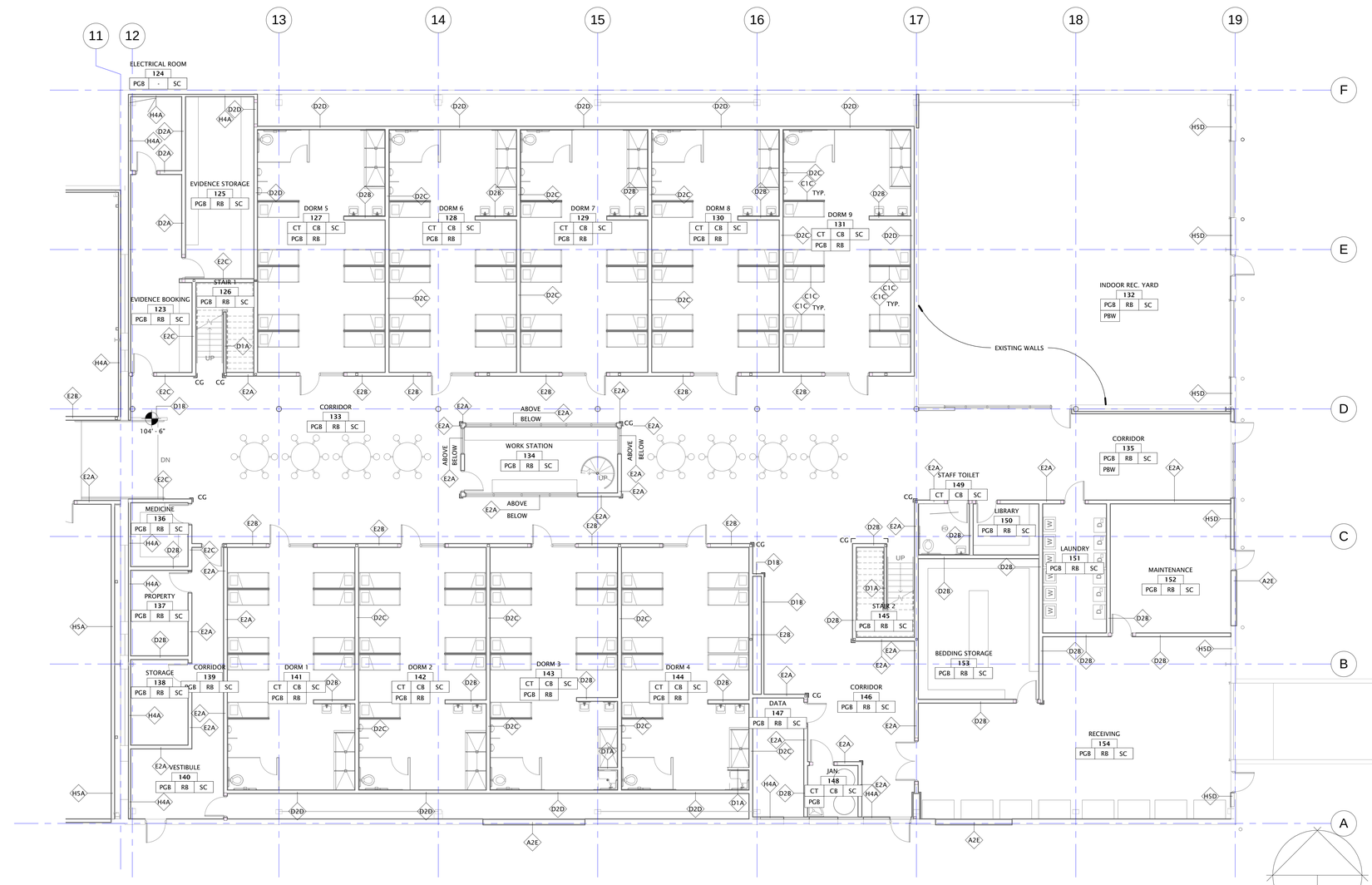
FLOOR PLAN- LEVEL 1 AREA "B"

Construction Documents

AE-111B



WALL TYPES
3/4" = 1'-0"



1 LEVEL 1-AREA "A" WTFI PLAN
AE-112A 1/8" = 1'-0"

FINISH KEY

WALL FLOOR BASE

WALLS	
PGB	PAINTED GYP. BOARD
CT	CERAMIC TILE
CG	STAINLESS STEEL CORNER GUARD
EP	EPOXY PAINT
PBW	PAINTED BLOCK WALL
BASE	
RB	4" RUBBER BASE
CB	SANITARY COVED TILE BASE
EP	EPOXY PAINT
FLOOR	
C	CARPET TILE
LN	LINOLEUM SHEET
CT	CERAMIC TILE
SC	SEALED CONCRETE
EP	EPOXY PAINT
CC	CERAMIC CARPET
VCT	VINYL COMP. TILE

NOTES:

1. STAINLESS STEEL CORNER GUARDS ON ALL OUTSIDE CORNERS, 48" HIGH, 2" FLANGE TYPICAL.
2. ALL EXISTING METAL STRUCTURE TO BE PAINTED TO MATCH ADJACENT WALLS.

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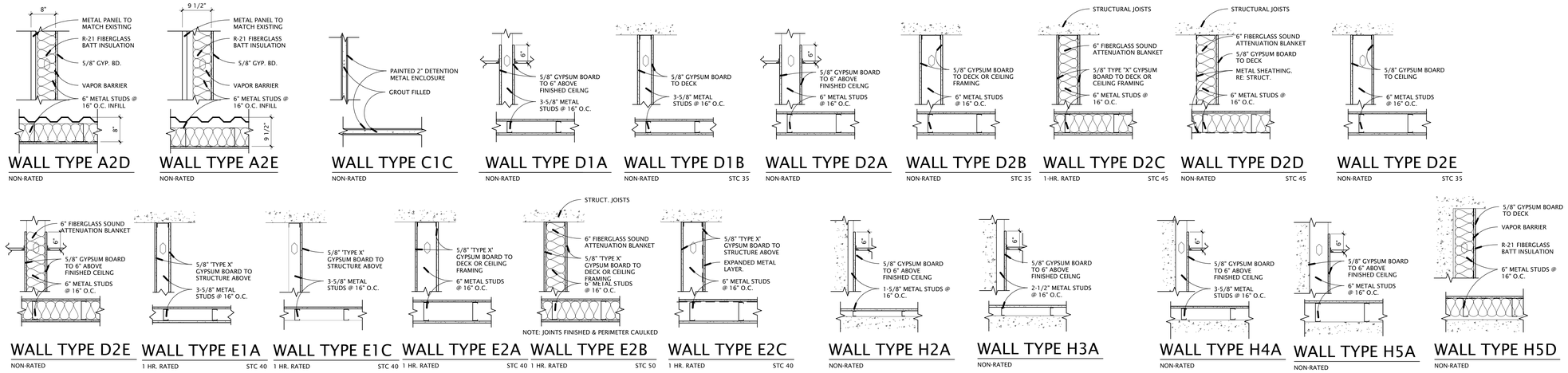
WTFI PLAN-LEVEL 1 -AREA "A"

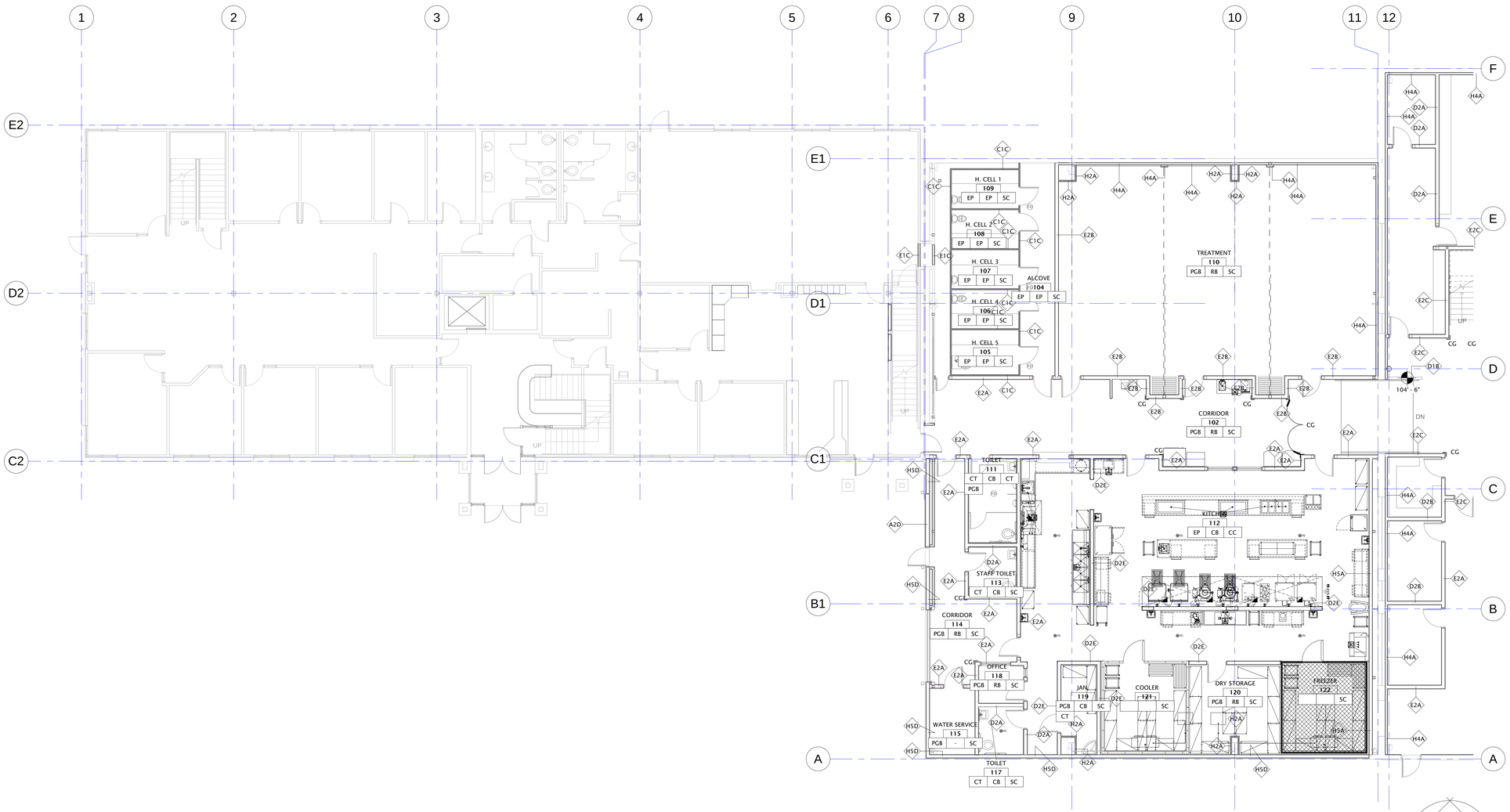
Construction Documents

AE-112A



WALL TYPE A2D — NON-RATED
WALL TYPE A2E — NON-RATED
WALL TYPE C1C — NON-RATED
WALL TYPE D1A — NON-RATED
WALL TYPE D1B — NON-RATED — STC 35
WALL TYPE D2A — NON-RATED
WALL TYPE D2B — NON-RATED — STC 35
WALL TYPE D2C — 1-HR. RATED — STC 45
WALL TYPE D2D — NON-RATED — STC 45
WALL TYPE D2E — NON-RATED — STC 35
WALL TYPE D2E — NON-RATED
WALL TYPE E1A — 1 HR. RATED — STC 40
WALL TYPE E1C — 1 HR. RATED — STC 40
WALL TYPE E2A — 1 HR. RATED — STC 40
WALL TYPE E2B — 1 HR. RATED — STC 50
NOTE: JOINTS FINISHED & PERIMETER CAULKED
WALL TYPE E2C — 1 HR. RATED — STC 40
WALL TYPE H2A — NON-RATED
WALL TYPE H3A — NON-RATED
WALL TYPE H4A — NON-RATED
WALL TYPE H5A — NON-RATED
WALL TYPE H5D — NON-RATED

WALL TYPES
3/4" = 1'-0"



1 LEVEL 1-AREA "B" WTF IPARENT
AE-112B 1/8" = 1'-0"

FINISH KEY

WALL / FLOOR / BASE

WALLS	
PGB	PAINTED GYP. BOARD
CT	CERAMIC TILE
CG	STAINLESS STEEL CORNER GUARD
EP	EPOXY PAINT
PBW	PAINTED BLOCK WALL
BASE	
RB	4" RUBBER BASE
CB	SANITARY COVED TILE BASE
EP	EPOXY PAINT
FLOOR	
C	CARPET TILE
LN	LINOLEUM SHEET
CT	CERAMIC TILE
SC	SEALED CONCRETE
EP	EPOXY PAINT
CC	CERAMIC CARPET
VCT	VINYL COMP. TILE

NOTES:

1. STAINLESS STEEL CORNER GUARDS ON ALL OUTSIDE CORNERS, 48" HIGH, 2" FLANGE TYPICAL.
2. ALL EXISTING METAL STRUCTURE TO BE PAINTED TO MATCH ADJACENT WALLS.

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WTFI PLAN- LEVEL 1-AREA "B"

Construction Documents

AE-112B

1 LEVEL 1 AREA "A" REFLECTED CEILING PLAN
AE-114A 1/8" = 1'-0"

NORTH

PLAN LEGEND

ROOM #	
TYPE	A
ELEVATION	9'-0"

TYPE A	2' x 4' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE B	2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE C	5/8" GYPSUM BOARD WITH METAL SUSPENSION SYSTEM (PAINTED & TEXTURED)
TYPE D	EXPOSED STRUCTURE (PAINTED)
TYPE E	METAL DECK (PAINTED)
TYPE F	5/8" GYPSUM BOARD ON METAL STUDS
TYPE G	5/8" TYPE "X"GYPSUM BOARD ON 2 1/2"METAL STUDS. BOTH SIDES.

SYMBOL LEGEND

- Lay-in Light Fixture
- Suspended or Surface Mounted Linear Light
- Recessed Light Fixture
- Mechanical Diffuser - Supply
- Mechanical Diffuser - Return

NOTE: MECHANICAL AND ELECTRICAL DATA SHOWN FOR REFERENCE ONLY. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.

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REFLECTED CEILING PLAN-LEVEL 1 AREA "A"

Construction Documents

AE-114A

PLAN LEGEND

ROOM #	
TYPE	A
ELEVATION	9'-0"

TYPE A	2" x 4' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE B	2" x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE C	5/8" GYPSUM BOARD WITH METAL SUSPENSION SYSTEM (PAINTED & TEXTURED)
TYPE D	EXPOSED STRUCTURE (PAINTED)
TYPE E	METAL DECK (PAINTED)
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SYMBOL LEGEND

- Lay-in Light Fixture
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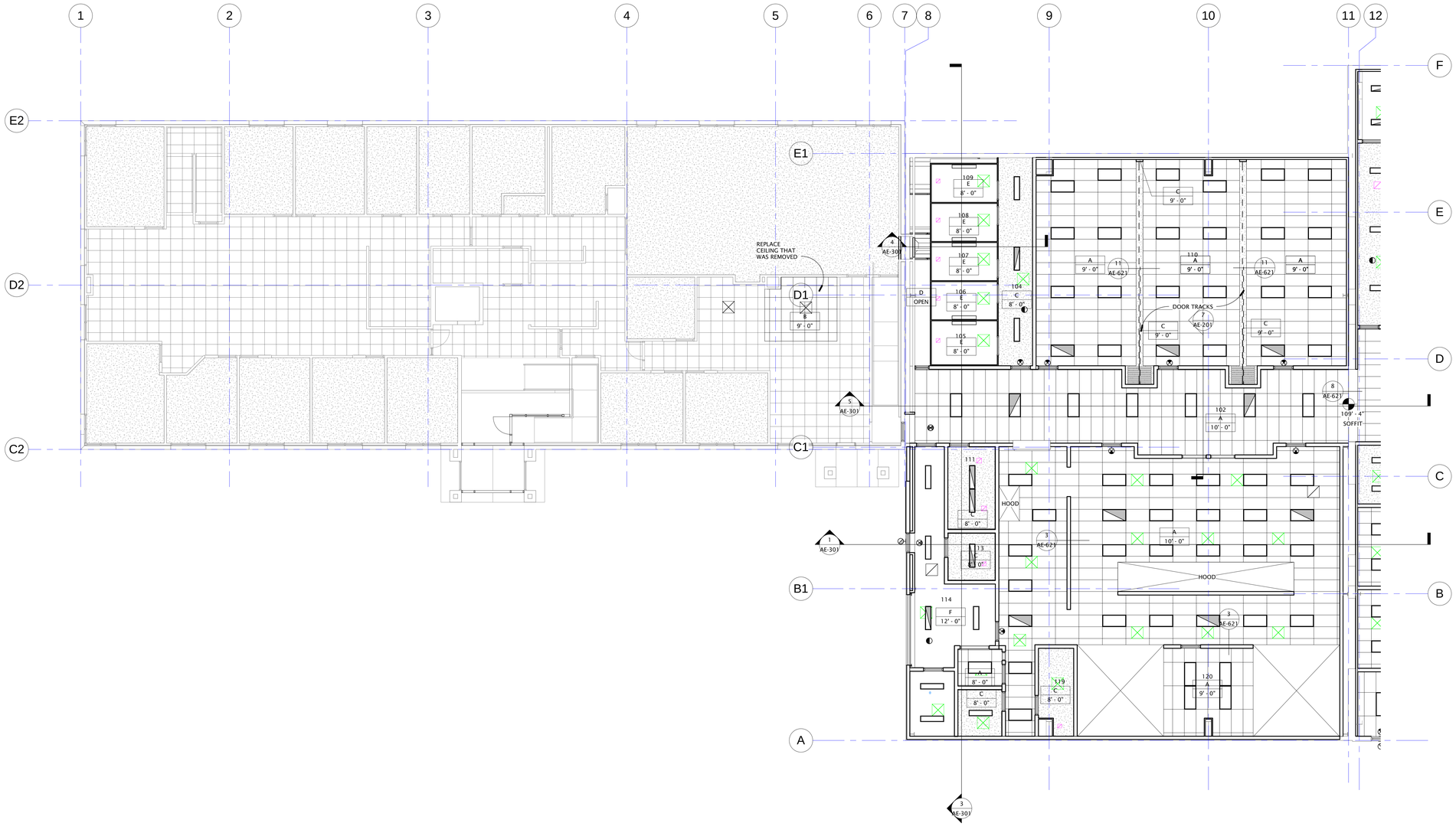

1 LEVEL 1 AREA "B" REFLECTED CEILING PLAN
AE-114B 1/8" = 1'-0"

NORTH

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REFLECTED CEILING PLAN- LEVEL 1 AREA "B"

Construction Documents

AE-114B

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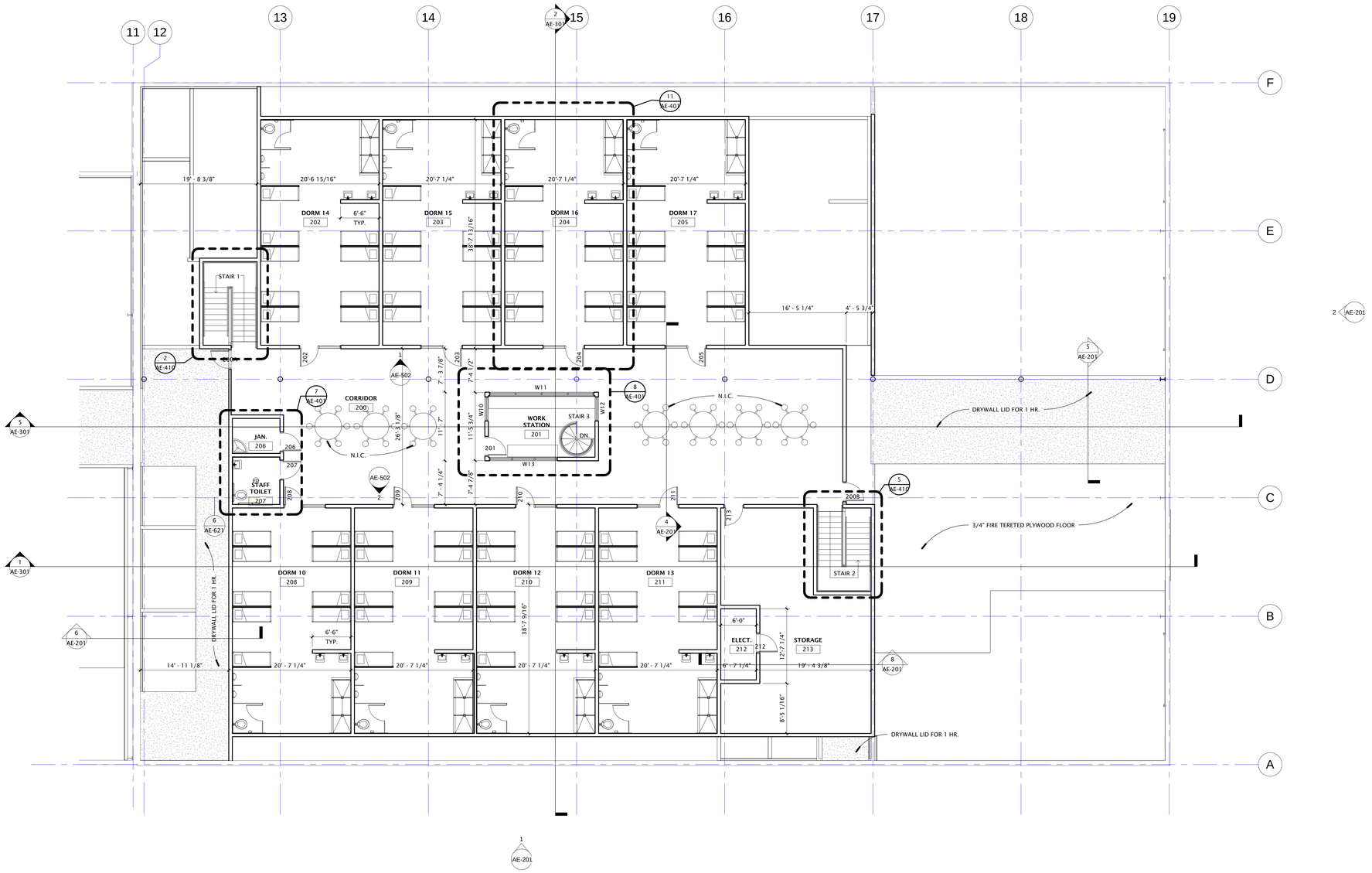
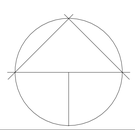


1 LEVEL 2-AREA "A" FLOOR PLAN
AE-121A 1/8" = 1'-0"



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FLOOR PLAN- LEVEL 2 AREA "A"

Construction Documents

AE-121A

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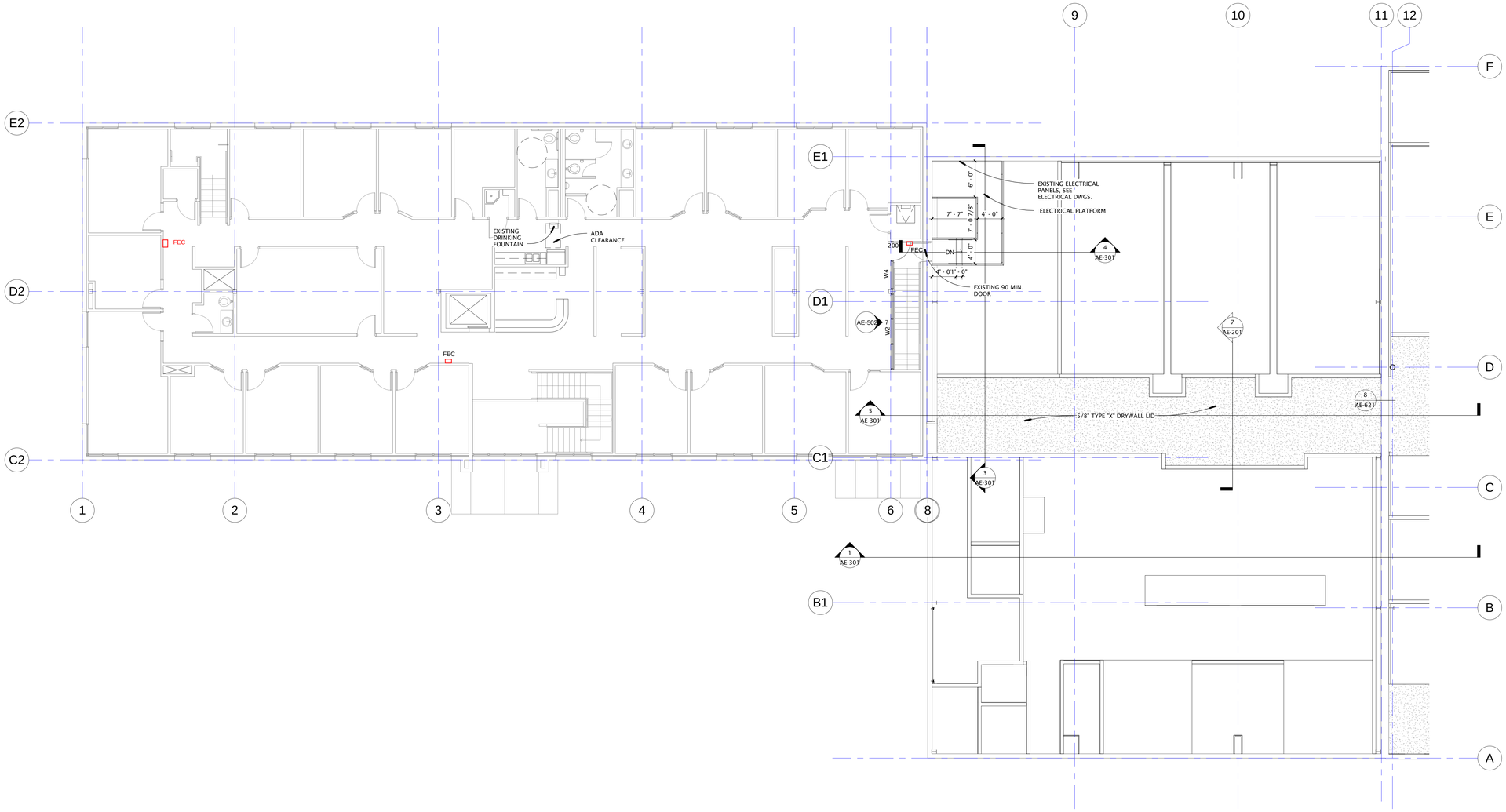

1 LEVEL 2 AREA "B" FLOOR PLAN
AE-121B 1/8" = 1'-0"

NORTH

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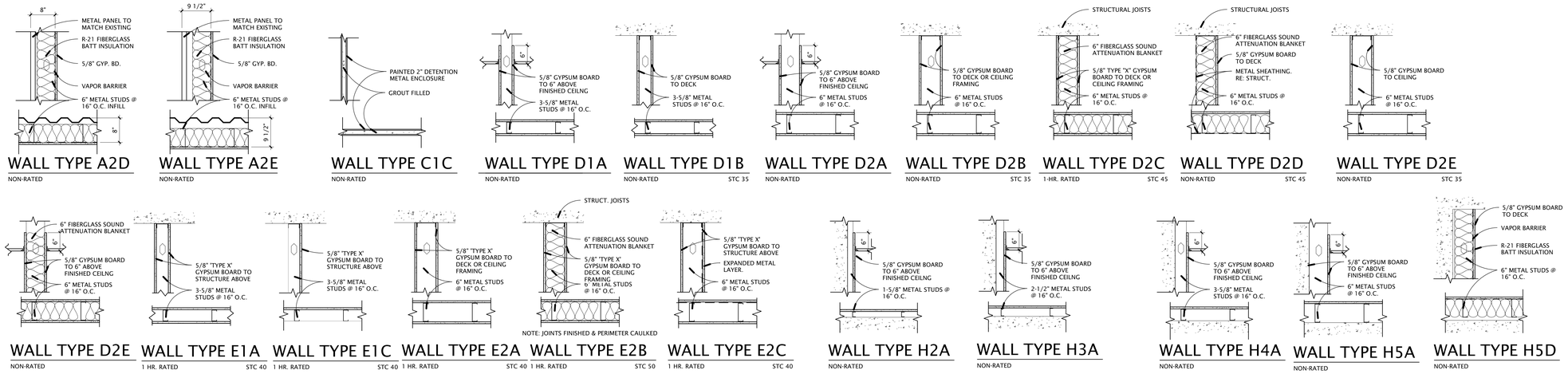
FLOOR PLAN- LEVEL2 AREA "B"

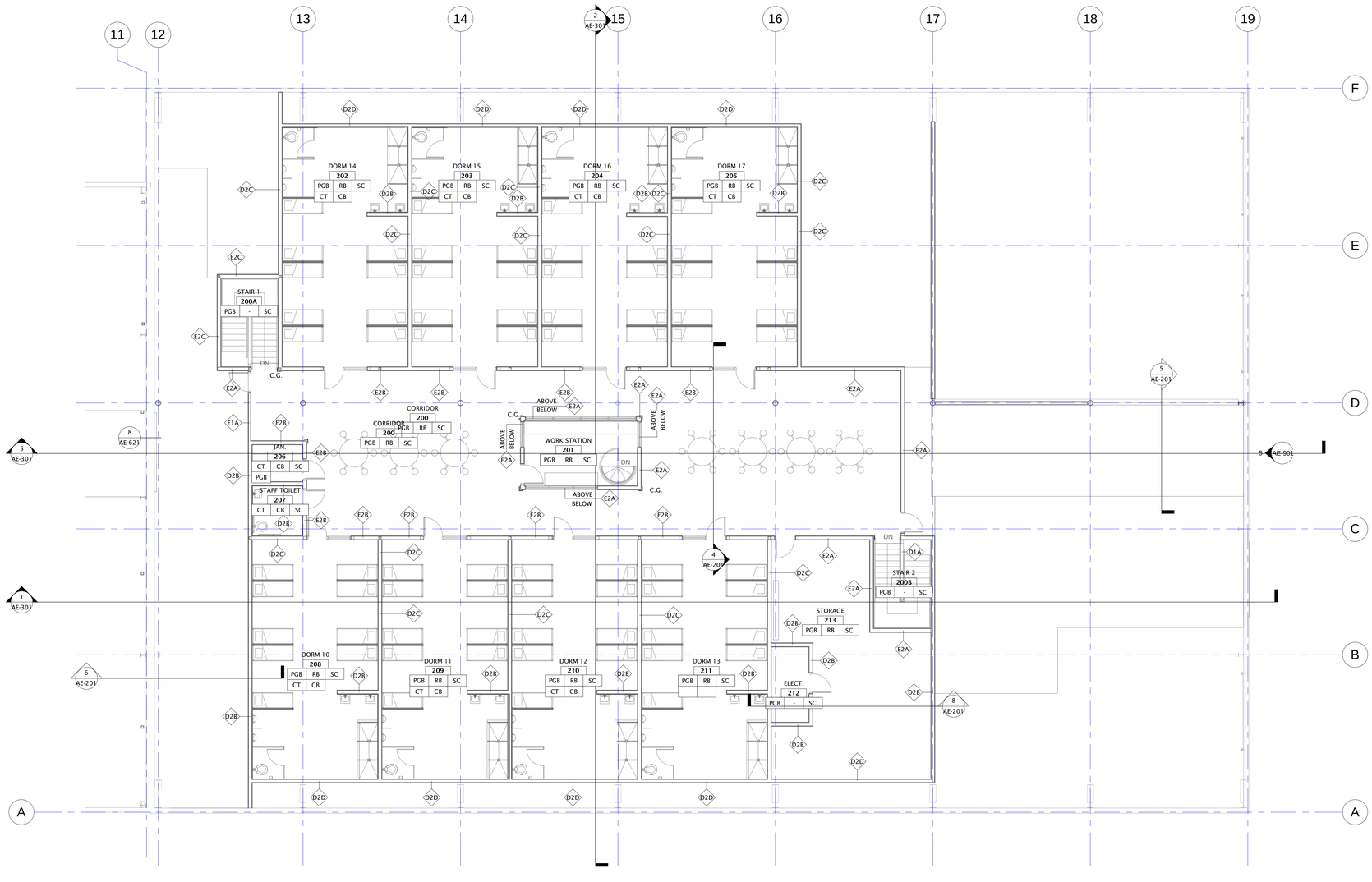
Construction Documents

AE-121B



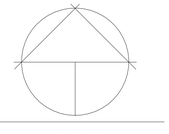
WALL TYPES

3/4" = 1'-0"



1 LEVEL 2-AREA "A" WTFI PLAN

AE-122A 1/8" = 1'-0"



NORTH

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REVISIONS:

FINISH KEY

WALL FLOOR BASE

WALLS	
PGB	PAINTED GYP. BOARD
CT	CERAMIC TILE
CG	STAINLESS STEEL CORNER GUARD
EP	EPOXY PAINT
PBW	PAINTED BLOCK WALL
BASE	
RB	4" RUBBER BASE
CB	SANITARY COVED TILE BASE
EP	EPOXY PAINT
FLOOR	
C	CARPET TILE
LN	LINOLEUM SHEET
CT	CERAMIC TILE
SC	SEALED CONCRETE
EP	EPOXY PAINT
CC	CERAMIC CARPET
VCT	VINYL COMP. TILE

NOTES:

1. STAINLESS STEEL CORNER GUARDS ON ALL OUTSIDE CORNERS, 48" HIGH, 2" FLANGE TYPICAL.

2. ALL EXISTING METAL STRUCTURE TO BE PAINTED TO MATCH ADJACENT WALLS.

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

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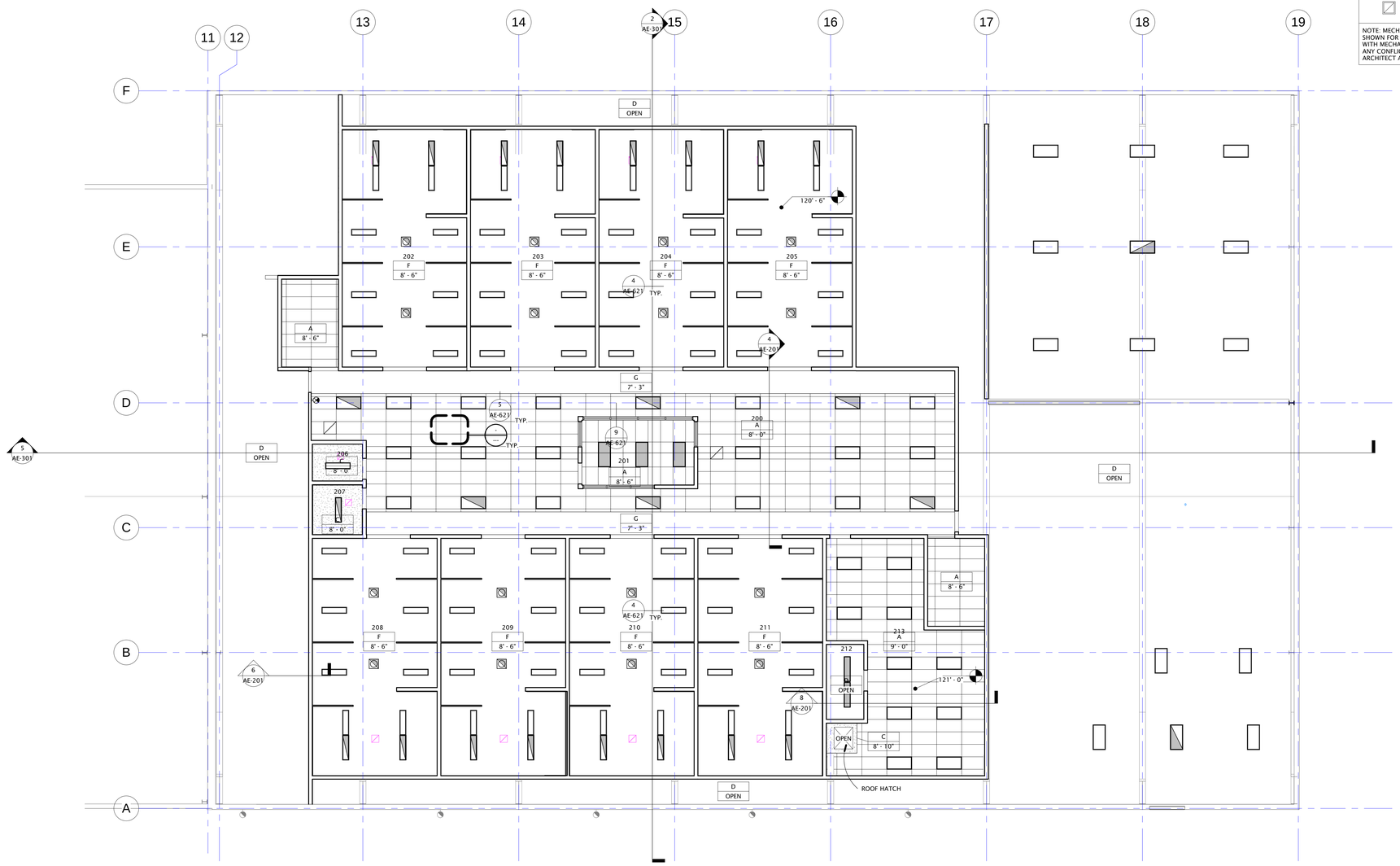
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

WTFI PLAN-LEVEL 2-AREA "A"

Construction Documents

AE-122A



1 AE-124 LEVEL 2 AREA "A" REFLECTED CEILING PLAN
1/8" = 1'-0"

NORTH

PLAN LEGEND

ROOM #
TYPE A
ELEVATION 9'-0"

TYPE A	2' x 4' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE B	2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE C	5/8" GYPSUM BOARD WITH METAL SUSPENSION SYSTEM (PAINTED & TEXTURED)
TYPE D	EXPOSED STRUCTURE (PAINTED)
TYPE E	METAL DECK (PAINTED)
TYPE F	5/8" GYPSUM BOARD ON METAL STUDS
TYPE G	5/8" TYPE "X"GYPSUM BOARD ON 2 1/2"METAL STUDS. BOTH SIDES.

SYMBOL LEGEND

- Lay-in Light Fixture
- Suspended or Surface Mounted Linear Light
- Recessed Light Fixture
- Mechanical Diffuser - Supply
- Mechanical Diffuser - Return

NOTE: MECHANICAL AND ELECTRICAL DATA SHOWN FOR REFERENCE ONLY. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.

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REVISIONS:

STATE OF UTAH
KEVIN B. MILLER
133431
LICENSED ARCHITECT

PAROLE VIOLATOR CENTER

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REFLECTED CEILING PLAN-LEVEL 2 AREA "A"

Construction Documents

AE-124

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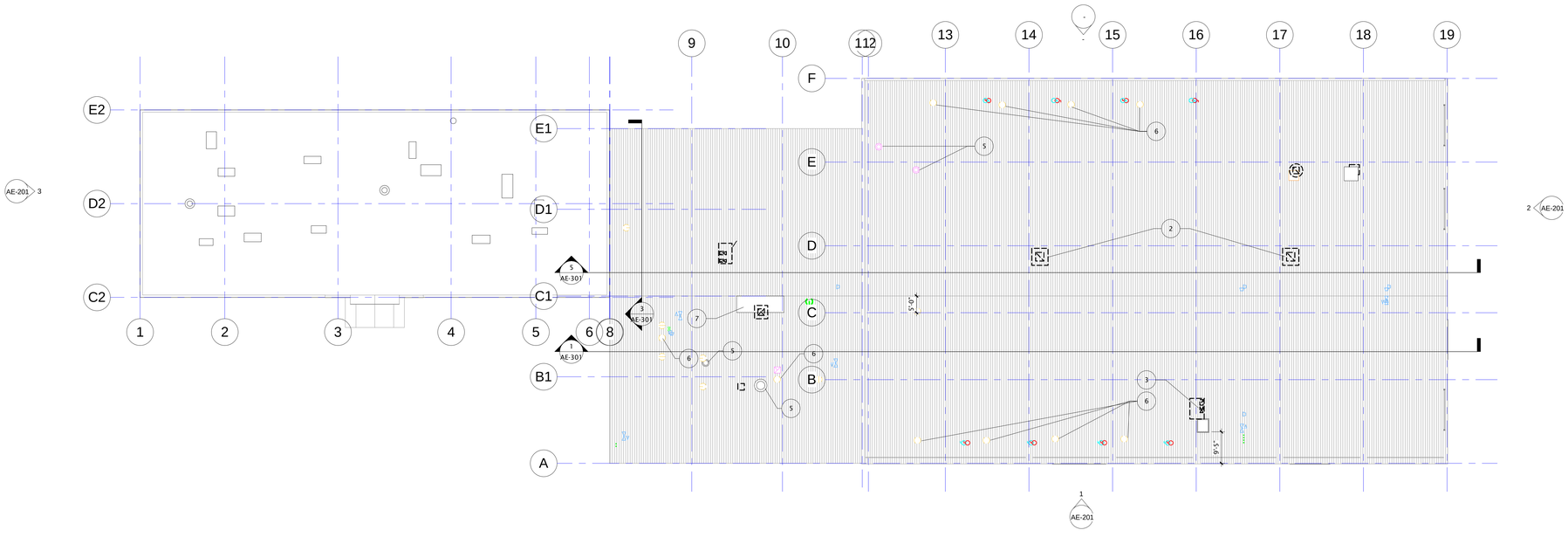
REVISIONS:

1. REUSE CURBS FOR NEW EQUIPMENT. MODIFY AS NECESSARY. PATCH AND/OR FLASH TO METAL ROOF, MAKE WEATER TIGHT
2. REMOVED EVAPORATIVE COOLER. PATCH TO METAL ROOF, MAKE WEATER TIGHT
3. REMOVED RTU. PATCH TO METAL ROOF, MAKE WEATER TIGHT
4. REMOVED VENT. PATCH TO METAL ROOF, MAKE WEATER TIGHT
5. NEW EXHAUST FAN(S). PATCH TO METAL ROOF, MAKE WEATER TIGHT
6. NEW VENTS THROUGH ROOF. FLASH TO METAL ROOF, MAKE WEATER TIGHT
7. NEW MAU. FLASH TO METAL ROOF, MAKE WEATER TIGHT



1 AE-131 ROOF PLAN
1/16" = 1'-0"

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ROOF PLAN

Construction Documents

AE-131

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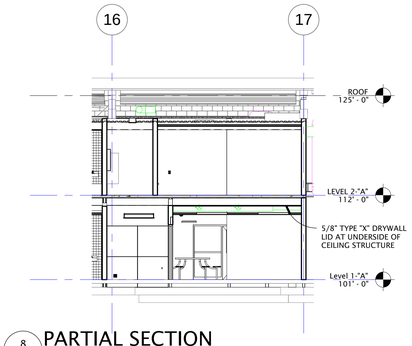
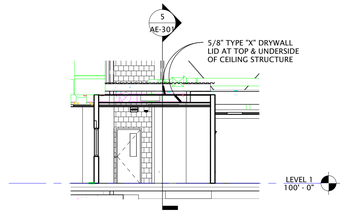
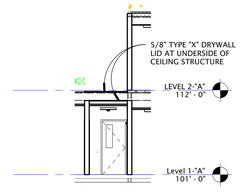
REVISIONS:



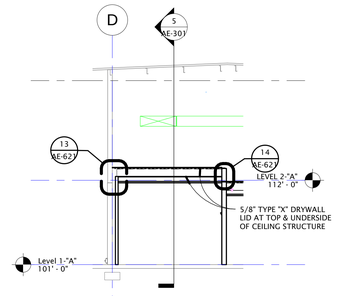
8 AE-201 PARTIAL SECTION
1/8" = 1'-0"



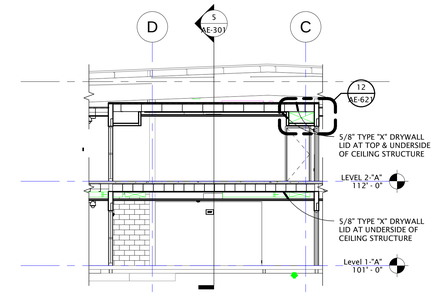
7 AE-201 PARTIAL SECTION
1/8" = 1'-0"



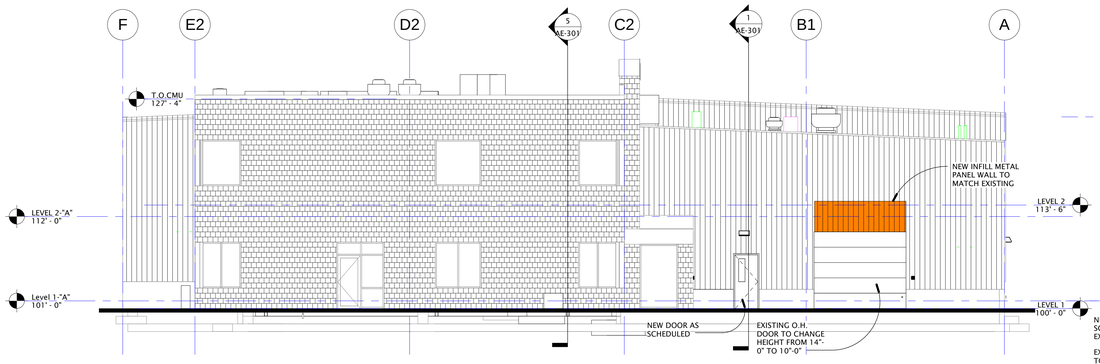
6 AE-201 PARTIAL SECTION
1/8" = 1'-0"



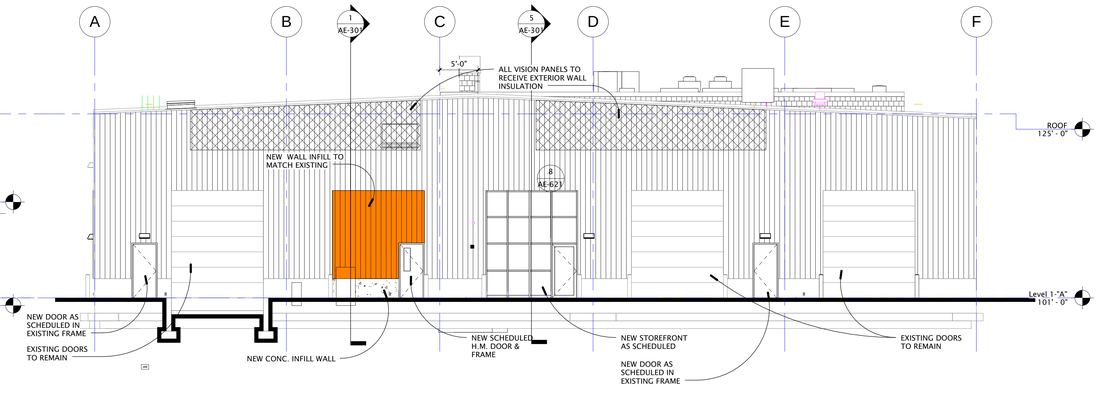
5 AE-201 PARTIAL SECTION
1/8" = 1'-0"



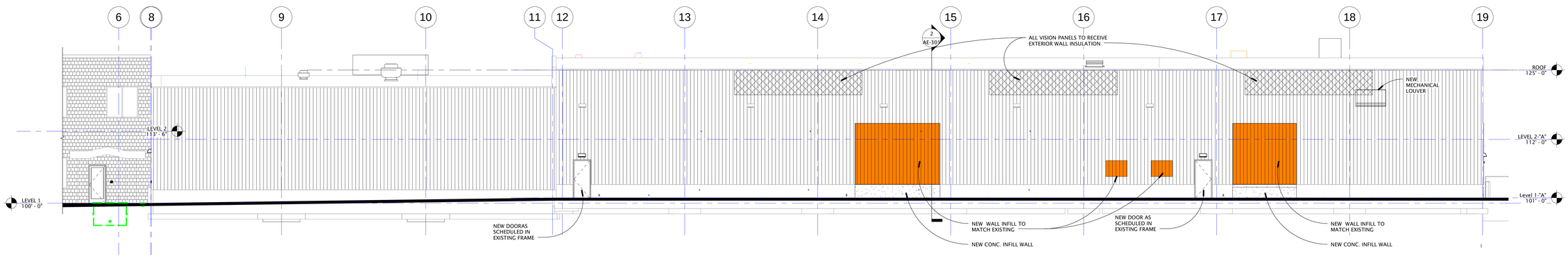
4 AE-201 PARTIAL SECTION
1/8" = 1'-0"



3 AE-201 WEST ELEVATION
1/8" = 1'-0"



2 AE-201 EAST ELEVATION
1/8" = 1'-0"



1 AE-201 SOUTH ELEVATION
1/8" = 1'-0"

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EXTERIOR ELEVATIONS & PARTIAL BUILDING SECTIONS

Construction Documents

AE-201

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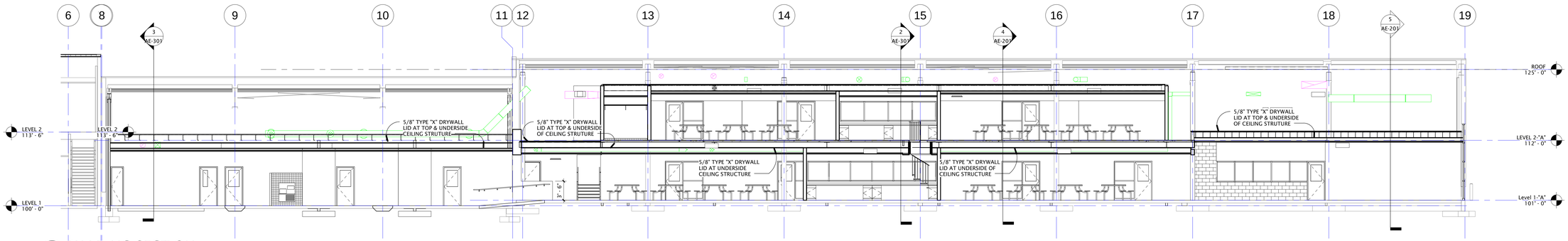
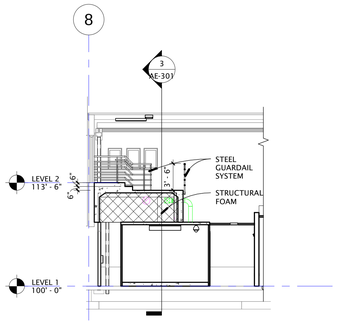
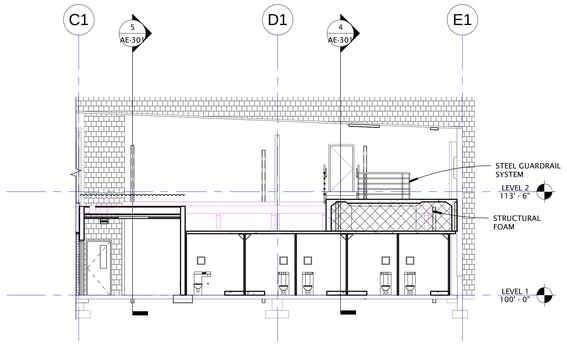


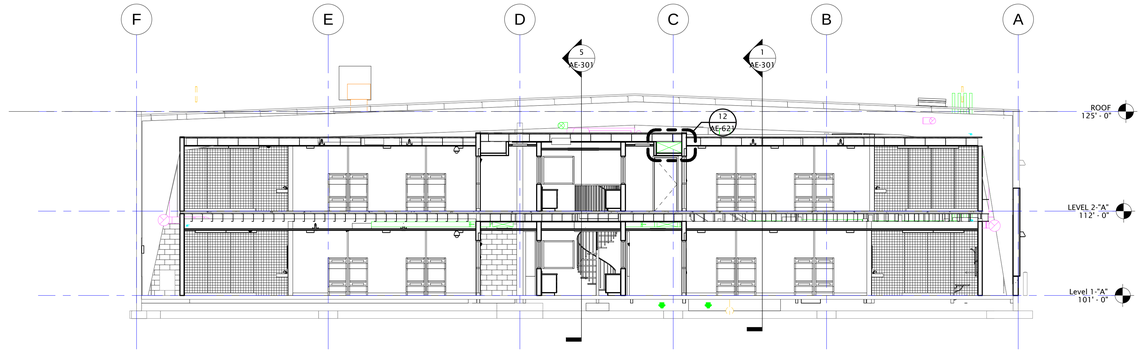
5 AE-301 BUILDING SECTION
1/8" = 1'-0"



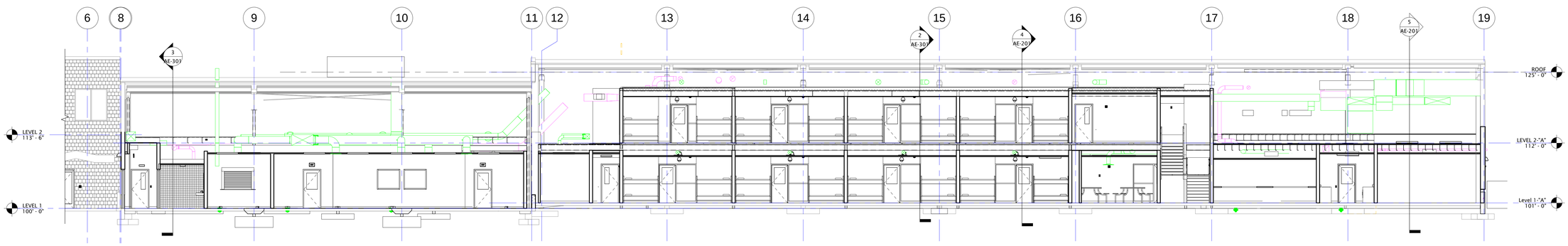
4 AE-301 PARTIAL SECTION
1/8" = 1'-0"



3 AE-301 PARTIAL SECTION
1/8" = 1'-0"



2 AE-301 BUILDING SECTION
1/8" = 1'-0"



1 AE-301 BUILDING SECTION
1/8" = 1'-0"

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PAROLE VIOLATOR CENTER

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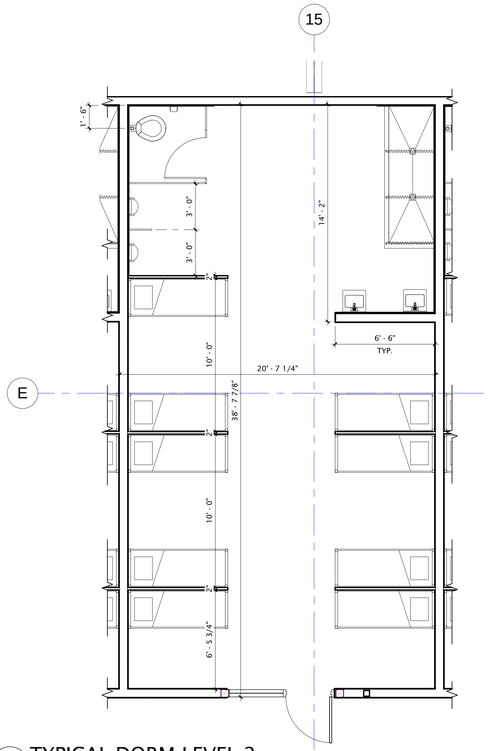
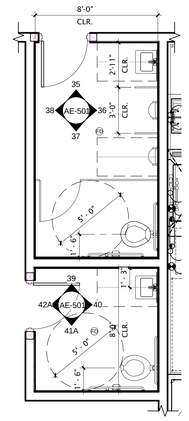
BUILDING SECTIONS

Construction Documents

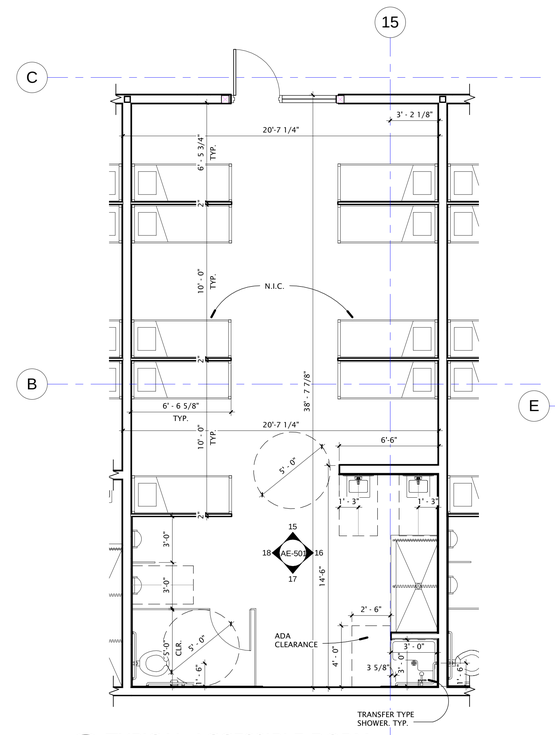
AE-301



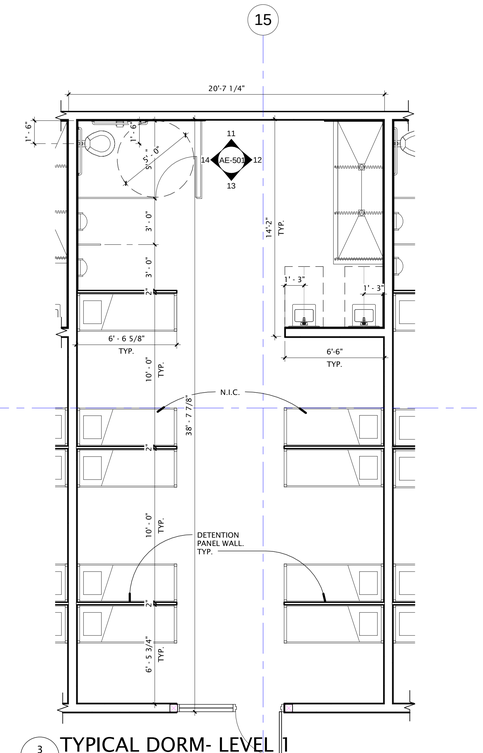
11 AE-401 TYPICAL DORM-LEVEL 2
1/4" = 1'-0"



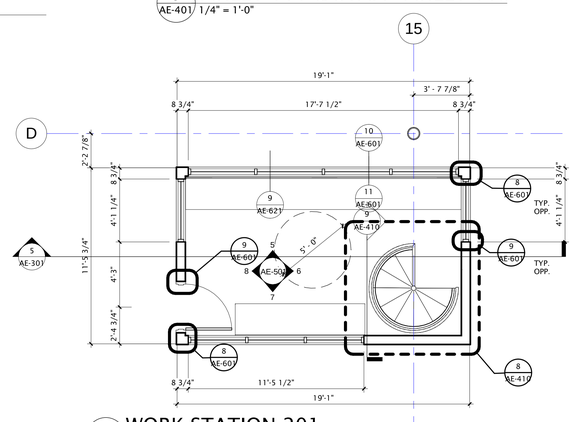
9 AE-401 TOILET 111 & STAFF TOILET 113
1/4" = 1'-0"



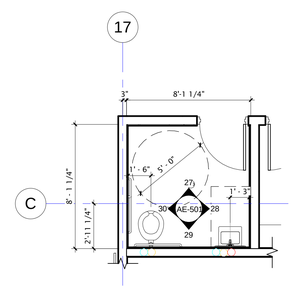
6 AE-401 TYPICAL ACCESSIBLE DORM
1/4" = 1'-0"



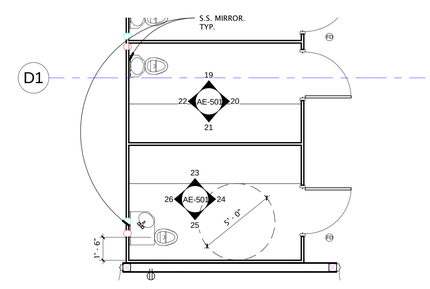
3 AE-401 TYPICAL DORM- LEVEL 1
1/4" = 1'-0"



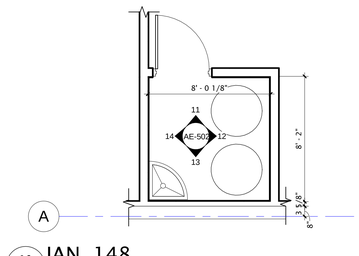
8 AE-401 WORK STATION 201
1/4" = 1'-0"



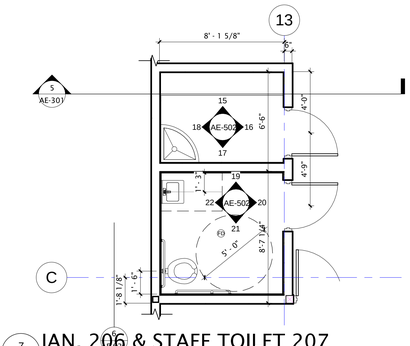
5 AE-401 STAFF TOILET 149
1/4" = 1'-0"



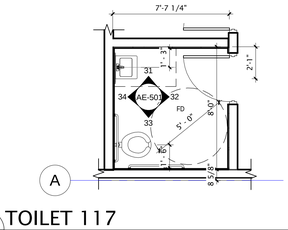
2 AE-401 HOLDING CELLS 4 & 5
1/4" = 1'-0"



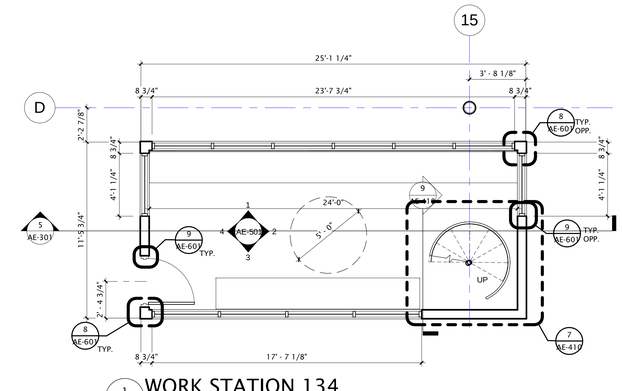
10 AE-401 JAN. 148
1/4" = 1'-0"



7 AE-401 JAN. 206 & STAFF TOILET 207
1/4" = 1'-0"



4 AE-401 TOILET 117
1/4" = 1'-0"



1 AE-401 WORK STATION 134
1/4" = 1'-0"

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REVISIONS:

PAROLE
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Salt Lake City, Utah

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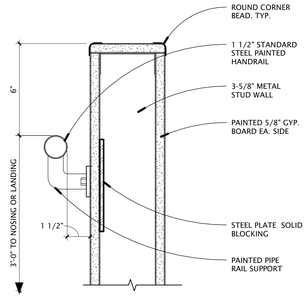
ISSUED DATE:	4/11/2012

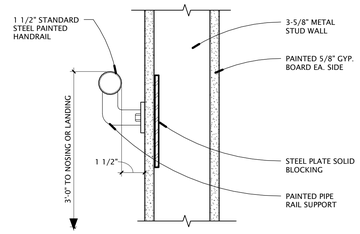
ENLARGED PLANS

Construction Documents

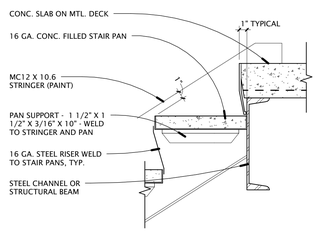
AE-401



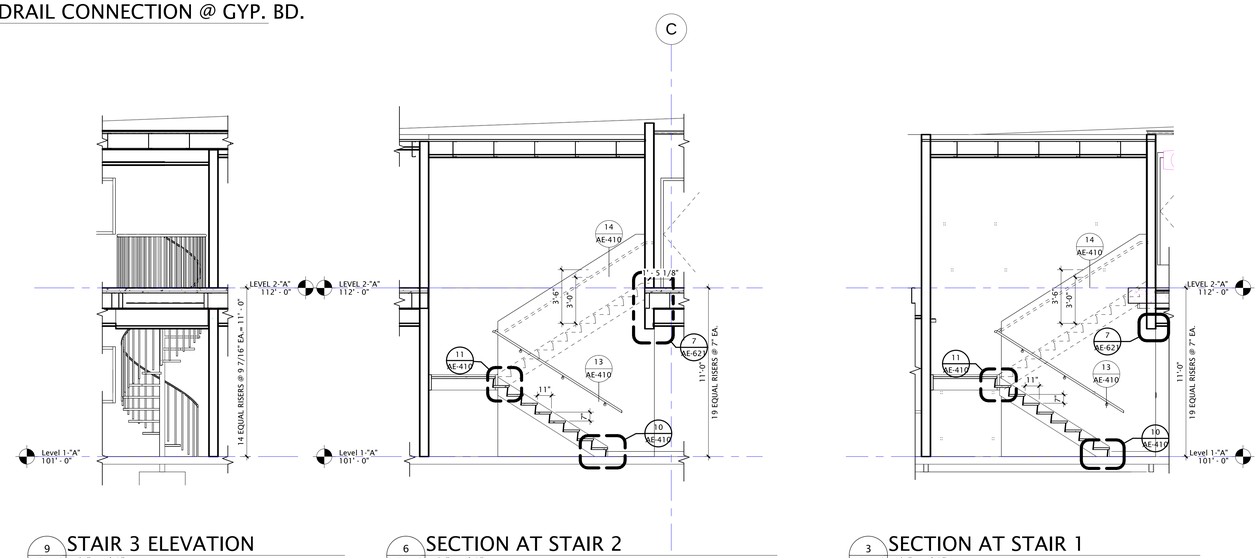
14 AE-410 GUARDRAIL / HANDRAIL DETAIL
3" = 1'-0"



13 AE-410 TYP-HANDRAIL CONNECTION @ GYP. BD.
3" = 1'-0"



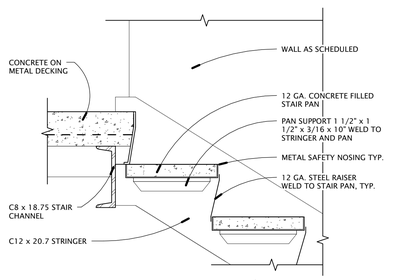
12 AE-410 T.O. STAIR LANDING
1 1/2" = 1'-0"



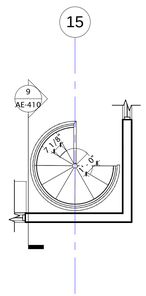
9 AE-410 STAIR 3 ELEVATION
1/4" = 1'-0"

6 AE-410 SECTION AT STAIR 2
1/4" = 1'-0"

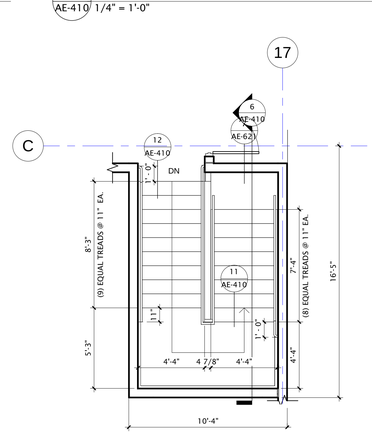
3 AE-410 SECTION AT STAIR 1
1/4" = 1'-0"



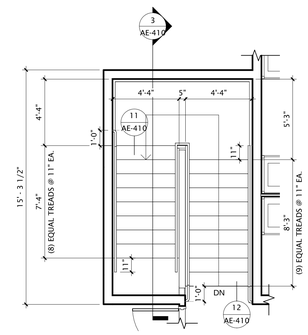
11 AE-410 TYP.- METAL PAN LANDING
1 1/2" = 1'-0"



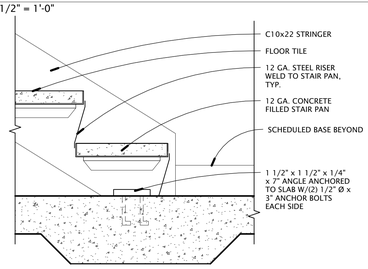
8 AE-410 STAIR 3 LEVEL 2
1/4" = 1'-0"



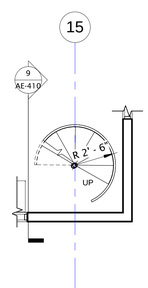
5 AE-410 LEVEL 2-STAIR 2 PLAN
1/4" = 1'-0"



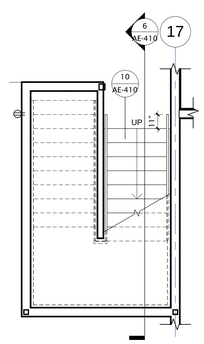
2 AE-410 LEVEL 2-STAIR 1 PLAN
1/4" = 1'-0"



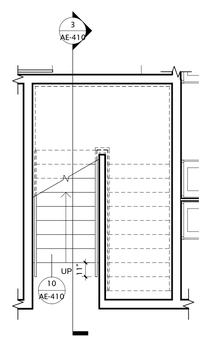
10 AE-410 TYP-B.O. STAIR - MTL PAN
1 1/2" = 1'-0"



7 AE-410 STAIR 3 LEVEL 1
1/4" = 1'-0"



4 AE-410 LEVEL 1-STAIR 2 PLAN
1/4" = 1'-0"



1 AE-410 LEVEL 1-STAIR 1 PLAN
1/4" = 1'-0"

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
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REVISIONS:

STATE OF UTAH
KEVIN B. MILLER
133431
LICENSED ARCHITECT

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

VERTICAL CIRCULATION-STAIR 1 & STAIR 2 & STAIR DETAILS

Construction Documents

AE-410

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375 WEST 200 SOUTH
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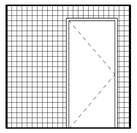

42A AE-501 STAFF TOILET 113 WEST
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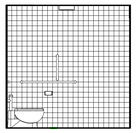

41A AE-501 STAFF TOILET 113 SOUTH
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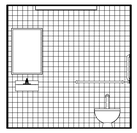

40 AE-501 STAFF TOILET 113 EAST
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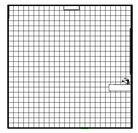

39 AE-501 STAFF TOILET 113 NORTH
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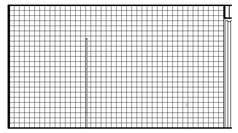

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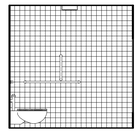

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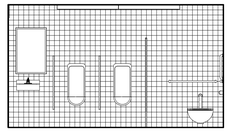

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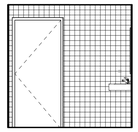

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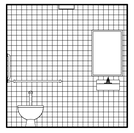

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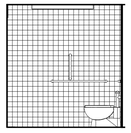

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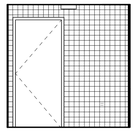

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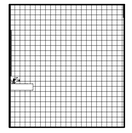
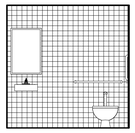


31 AE-501 TOILET 117 NORTH
1/4" = 1'-0"

30 AE-501 STAFF TOILET 149 WEST
1/4" = 1'-0"



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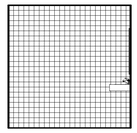

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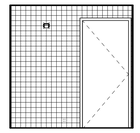
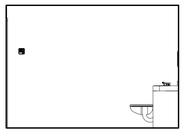


27 AE-501 STAFF TOILET 149 NORTH
1/4" = 1'-0"

26 AE-501 H. CELL 5 WEST
1/4" = 1'-0"



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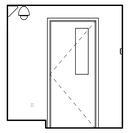

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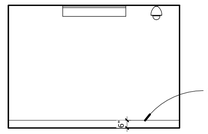

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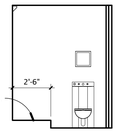

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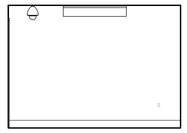

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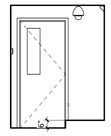

20 AE-501 H. CELL 4 EAST
1/4" = 1'-0"

19 AE-501 H. CELL 4 NORTH
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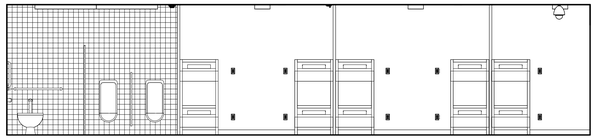

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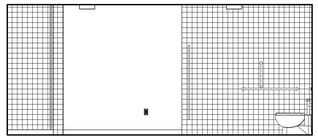

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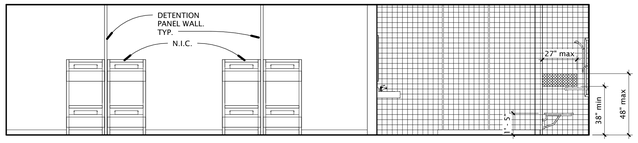

16 AE-501 DORM 143 EAST
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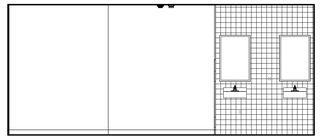

15 AE-501 DORM 143 NORTH
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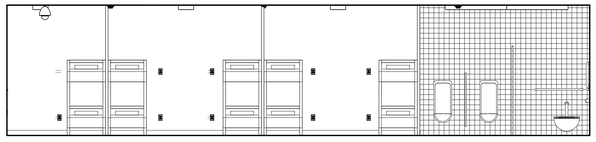

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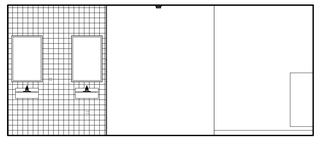

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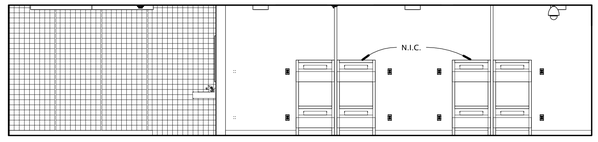

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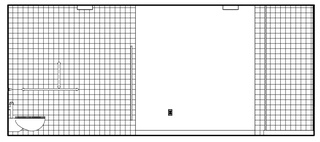

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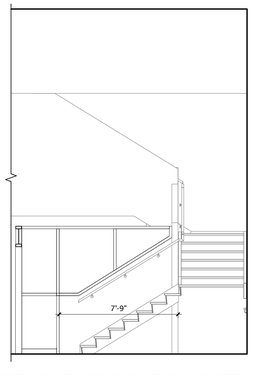

10 AE-501 STAIR ENCLOSURE NORTH
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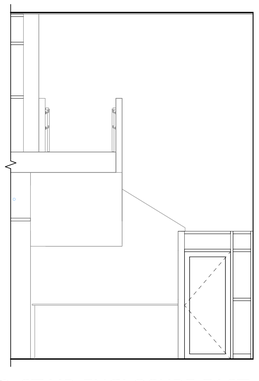

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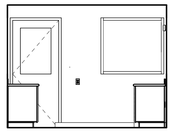

8 AE-501 WORK STATION 201 WEST
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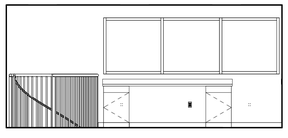

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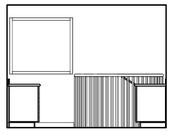

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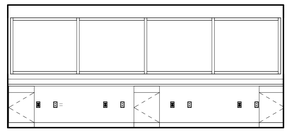

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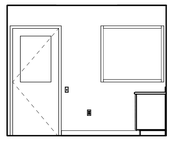

4 AE-501 WORK STATION 134 WEST
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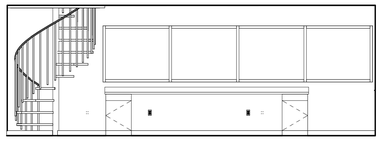

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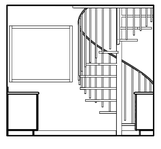

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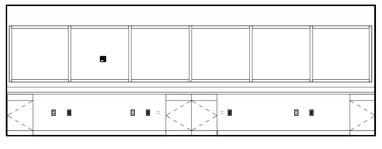

1 AE-501 WORK STATION 134 NORTH
1/4" = 1'-0"

PAROLE
VIOLATOR
CENTER

1747 South 900 West
Salt Lake City, Utah

Division of
Facilities
Construction and
Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

INTERIOR ELEVATIONS

Construction Documents

AE-501

GSBS ARCHITECTS

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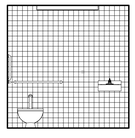
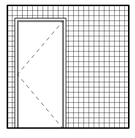


22 AE-502 STAFF TOILET 207 WEST
1/4" = 1'-0"

21 AE-502 STAFF TOILET 207 SOUTH
1/4" = 1'-0"



20 AE-502 STAFF TOILET 207 EAST
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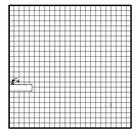

19 AE-502 STAFF TOILET 207 NORTH
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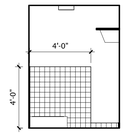
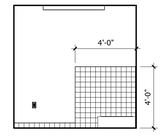


18 AE-502 JAN. 206 WEST
1/4" = 1'-0"



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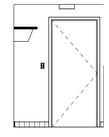

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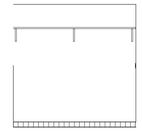

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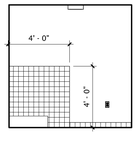

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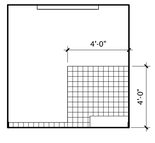
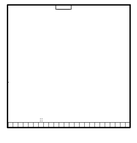
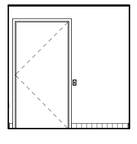


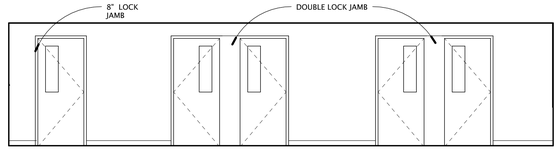
13 AE-502 JAN. 148 SOUTH
1/4" = 1'-0"



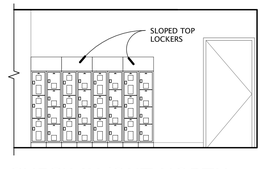
12 AE-502 JAN 148 EAST
1/4" = 1'-0"



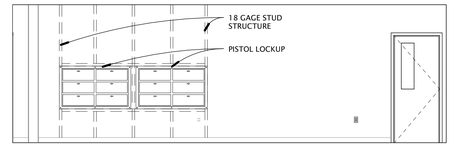
11 AE-502 JAN 148 NORTH
1/4" = 1'-0"



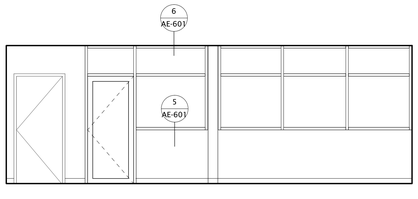
10 AE-502 ALCOVE 104 WEST
1/4" = 1'-0"



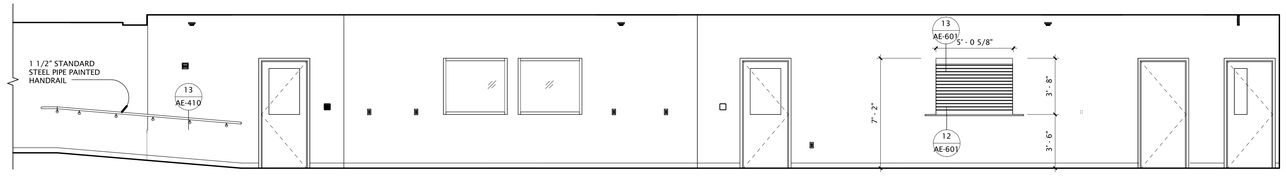
9 AE-502 CHECK IN/OUT NORTH
1/4" = 1'-0"



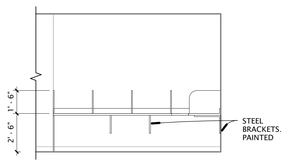
8 AE-502 CHECK IN/OUT EAST
1/4" = 1'-0"



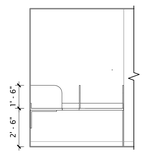
7 AE-502 OPEN OFFICE EAST
1/4" = 1'-0"



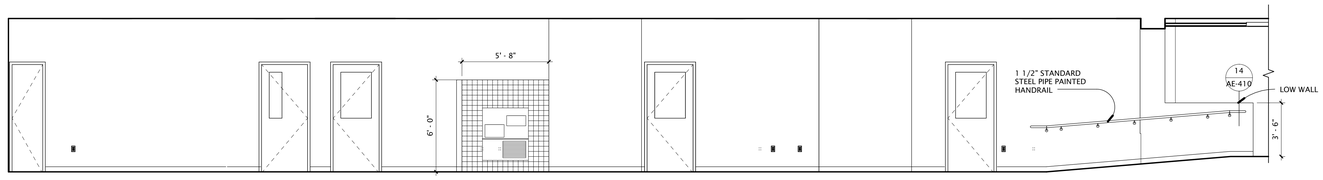
6 AE-502 CORRIDOR 102 SOUTH
1/4" = 1'-0"



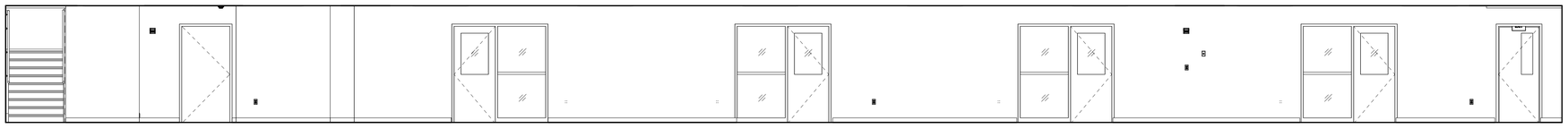
5 AE-502 NEW COUNTER WEST
1/4" = 1'-0"



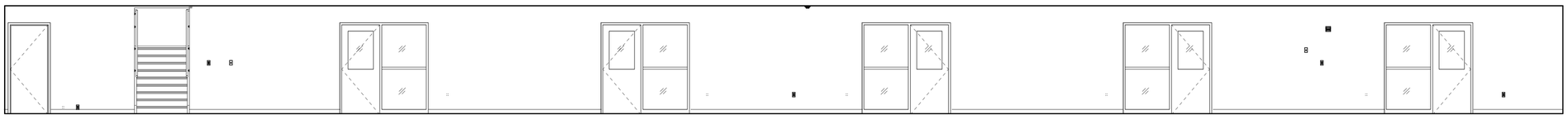
4 AE-502 NEW COUNTER NORTH
1/4" = 1'-0"



3 AE-502 CORRIDOR 102 NORTH
1/4" = 1'-0"



2 AE-502 CORRIDOR 133 SOUTH
1/4" = 1'-0"



1 AE-502 CORRIDROR 133 NORTH
1/4" = 1'-0"

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

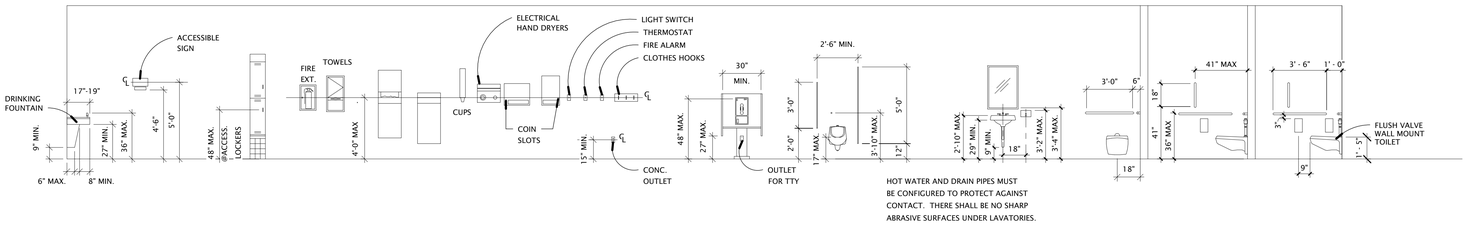
Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

INTERIOR ELEVATIONS

Construction Documents

AE-502



HOT WATER AND DRAIN PIPES MUST BE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP ABRASIVE SURFACES UNDER LAVATORIES.

2 / AE-503 TYPICAL MOUNTING HEIGHTS

1/4" = 1'-0"

TOILET ROOM ACCESSORIES KEY

TAG	DESCRIPTION	REMARKS	PROVIDED BY	INSTALLED BY
TA1	1 1/4" OUTSIDE DIA. STAINLESS STEEL GRAB BAR	STAINLESS STEEL, SATIN FINISH, SNAP FLANGE, WALL THICKNESS NOT LESS THAN 18 GAUGE. 1 1/5" CLEARANCE BETWEEN WALL SURFACE AND INSIDE FACE OF BAR.	CONTRACTOR	CONTRACTOR
TA2	TOILET TISSUE DISPENSER	--	OWNER	CONTRACTOR
TA3	HAND DRYER	XLERATOR HAND DRYPER	OWNER	OWNER
TA4	PAPER TOWEL DISPENSER	--	OWNER	CONTRACTOR
TA5	SOAP DISPENSER	--	OWNER	CONTRACTOR
TA6	SANITARY NAPKIN VENDING UNIT	BOBRICK B-352 25 RECESSED TYPE, STAINLESS STEEL, ALL WELDED CONSTRUCTION. PROVIDE 1 IN EACH WOMEN'S RESTROOM. COIN OPERATED.	CONTRACTOR	CONTRACTOR
TA7	SANITARY NAPKIN DISPOSAL UNIT	SURFACE MOUNTED, STAINLESS STEEL, SELF CLOSING DOOR AND REMOVABLE STAINLESS STEEL RECEPTACLE. ALL WELDED CONSTRUCTION. PROVIDE AT EACH WOMEN'S TOILET FIXTURE AND EACH UNISEX TOILET.	CONTRACTOR	CONTRACTOR
TA8	LAVATORY GUARD	PROVIDE AT EACH LAVATORY	CONTRACTOR	CONTRACTOR
TA9	1/4" POLISHED PLATE GLASS MIRROR	FRAMED, SIZE PER ELEVATIONS ABOVE EACH LAVATORY.	CONTRACTOR	CONTRACTOR
TA10	FLOOR MOUNTED TOILET AND URINAL PARTITIONS	PHENOLIC	CONTRACTOR	CONTRACTOR

NOTE:
1. GENERAL CONTRACTOR SHALL PROVIDE FIRE RATED SOLID BLOCKING FOR ALL WALL MOUNTED ITEMS, TYPICAL.
2. ALL BRACES, BRACKETS, HINGES, SCREWS ETC. FOR ACCESSORY FASTENERS SHALL BE STAINLESS STEEL.

1 / AE-503 TOILET ROOM ACCESORIES

1/8" = 1'-0"

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LICENSED ARCHITECT

PAROLE VIOLATOR CENTER

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OWNER PROJECT NO.:	10124120
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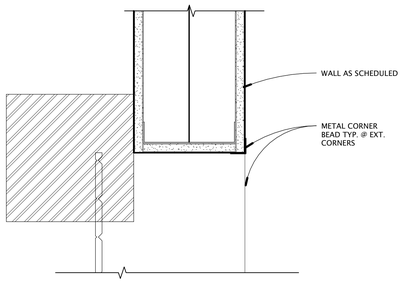
ISSUED DATE:	4/11/2012

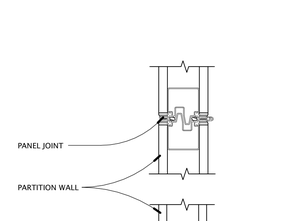
INTERIOR ELEVATIONS

Construction Documents

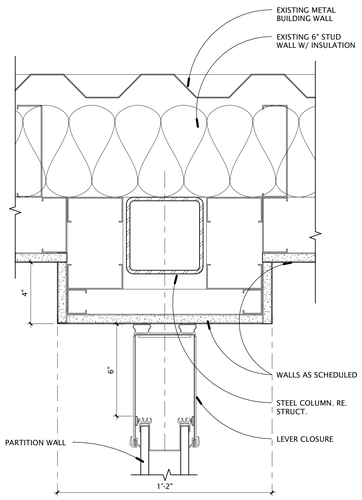
AE-503



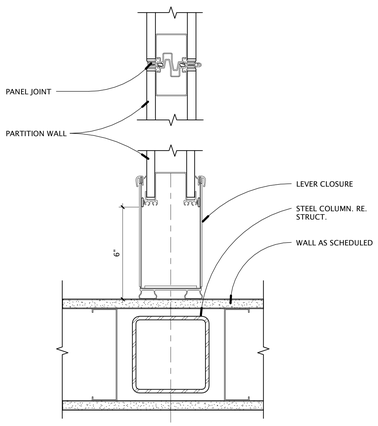
13 AE-601 COUNTER O.H. DOOR HEAD
3" = 1'-0"



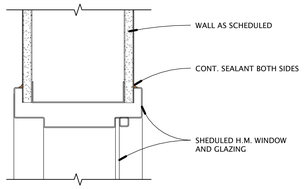
12 AE-601 COUNTER O.H. DOOR SILL
3" = 1'-0"



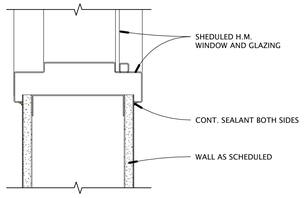
15 AE-601 OPERABLE PARTITION CLOSURE/PANEL JOINT (NORTH)
3" = 1'-0"



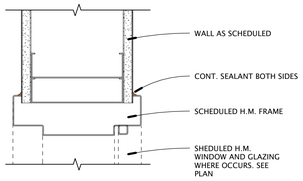
14 AE-601 OPERABLE PARTITION CLOSURE/PANEL JOINT (SOUTH)
3" = 1'-0"



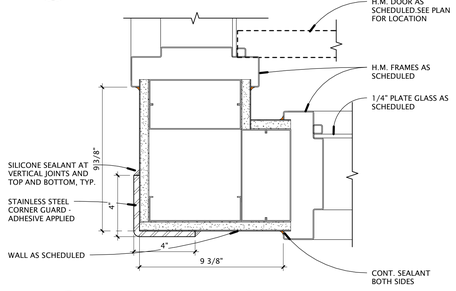
11 AE-601 TYP. H.M. WINDOW HEAD
3" = 1'-0"



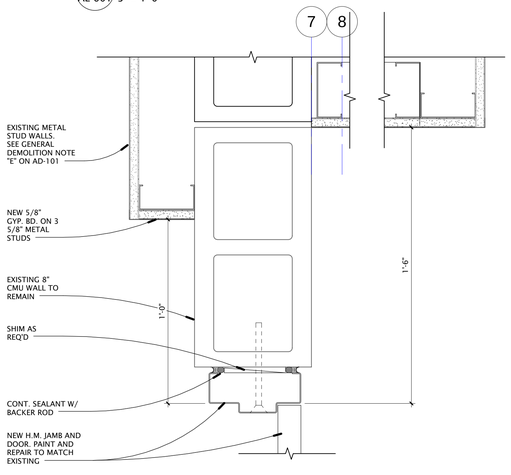
10 AE-601 TYP. H.M. WINDOW SILL
3" = 1'-0"



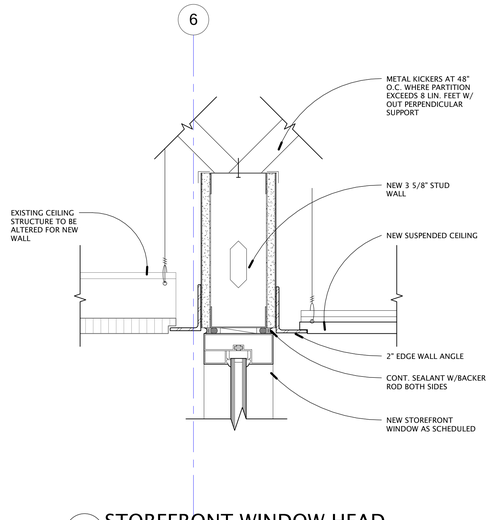
9 AE-601 TYP. H.M. DOOR/WINDOW JAMB DETAIL
3" = 1'-0"



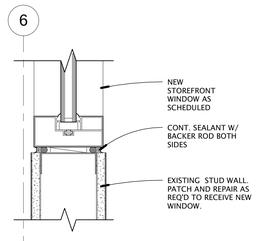
8 AE-601 TYP. OUTSIDE CORNER DETAIL
3" = 1'-0"



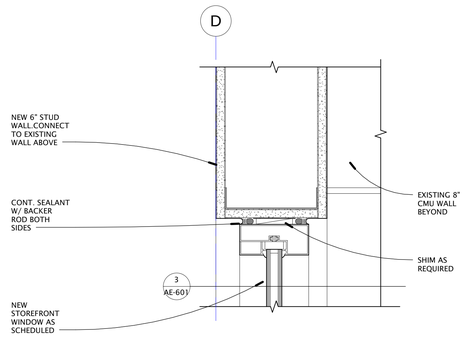
7 AE-601 ENLARGED WALL DETAIL
3" = 1'-0"



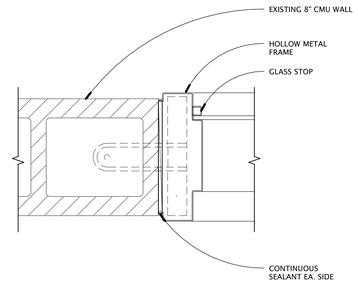
6 AE-601 STOREFRONT WINDOW HEAD
3" = 1'-0"



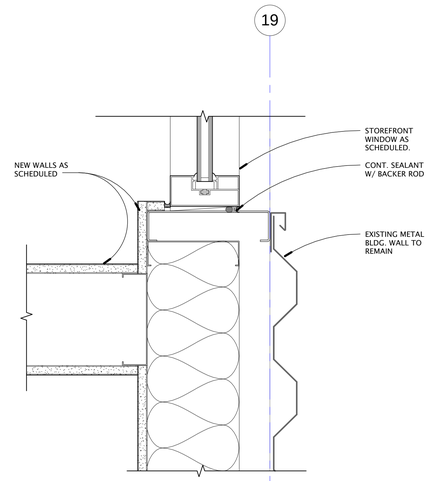
5 AE-601 STOREFRONT WONDOW SILL
3" = 1'-0"



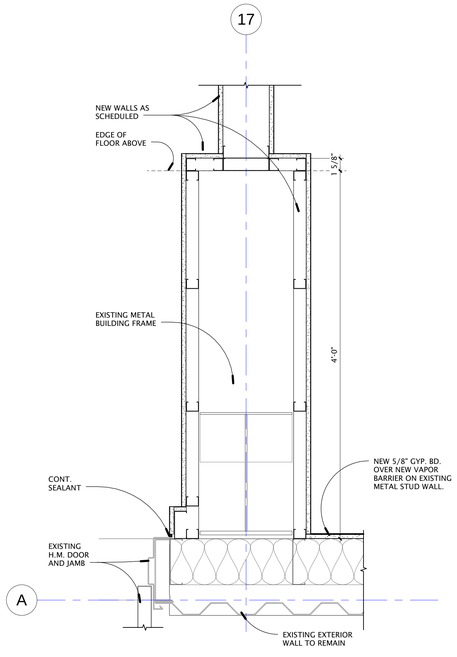
4 AE-601 INTERIOR STOREFRONT WINDOW HEAD
3" = 1'-0"



3 AE-601 INTERIOR STOREFRONT WINDOW JAMB
3" = 1'-0"



2 AE-601 EXTERIOR STOREFRONT WINDOW JAMB
3" = 1'-0"



1 AE-601 ENLARGED WALL PLAN DETAIL
1 1/2" = 1'-0"

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REVISIONS:

STATE OF UTAH
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133431
LICENSED ARCHITECT

PAROLE VIOLATOR CENTER

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Division of Facilities Construction and Management

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CHECKED BY:	Checker
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GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

DETAILS

Construction Documents

AE-601

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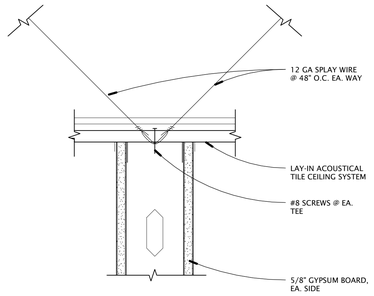
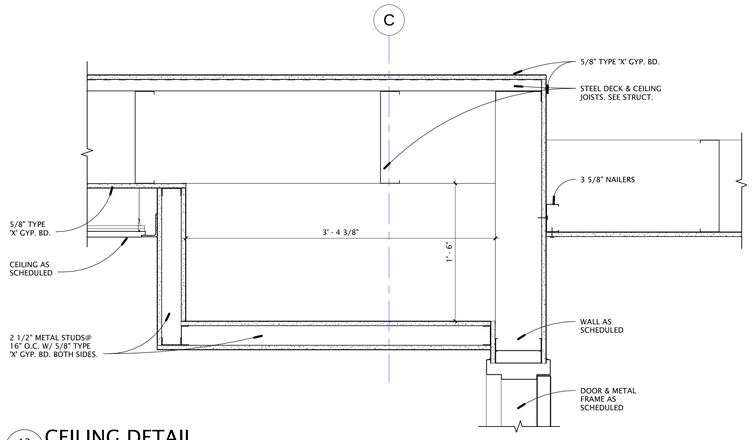
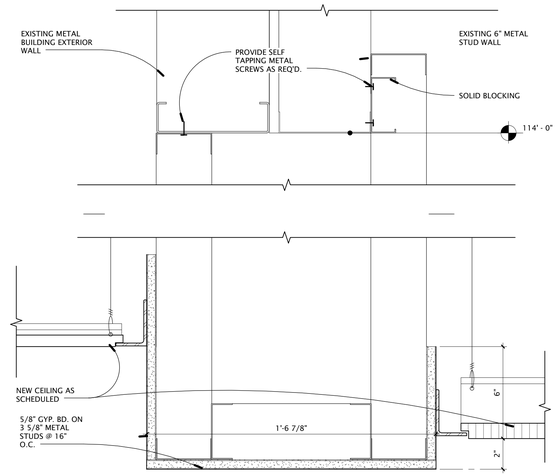


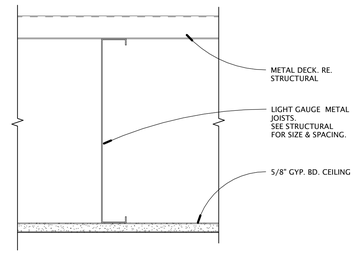
3 AE-621 WALL CONNECTION TO CEILING
3" = 1'-0"



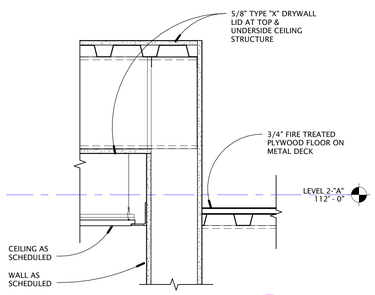
12 AE-621 CEILING DETAIL
1 1/2" = 1'-0"



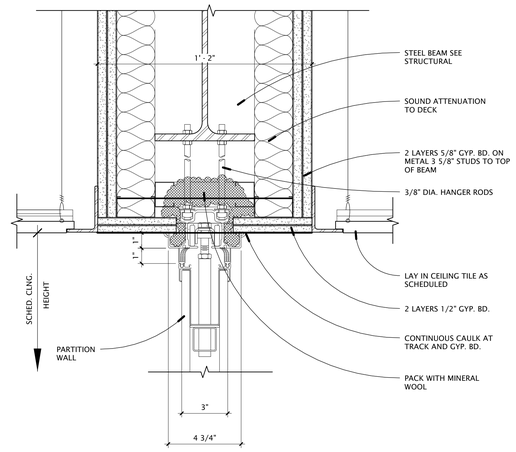
8 AE-621 SOFFIT DETAIL
3" = 1'-0"



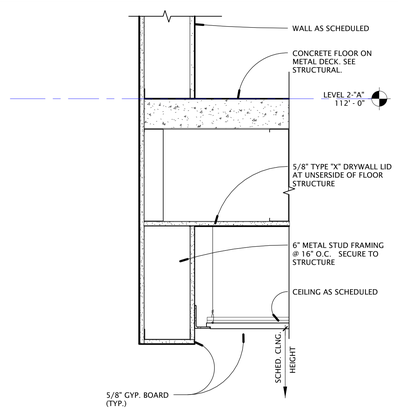
4 AE-621 TYP. GYP. BD. ON METAL JOIST
3" = 1'-0"



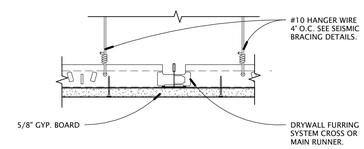
14 AE-621 CEILING DETAIL
1 1/2" = 1'-0"



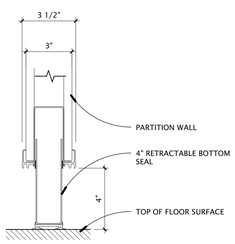
11 AE-621 OPERABLE PARTITION SOFFIT DETAIL
3" = 1'-0"



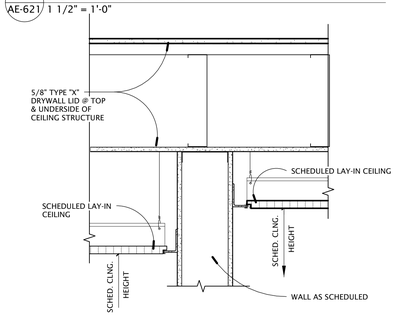
7 AE-621 SOFFIT DETAIL
1 1/2" = 1'-0"



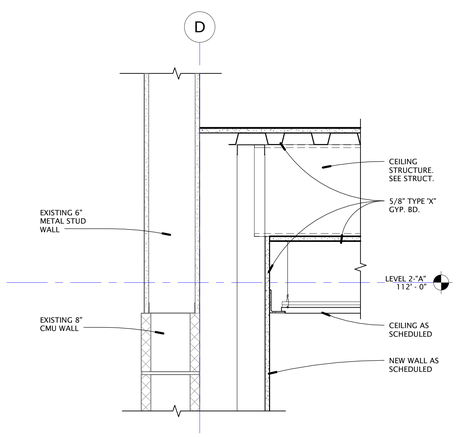
2 AE-621 STANDARD-SUSPENDED GYP. BD.
3" = 1'-0"



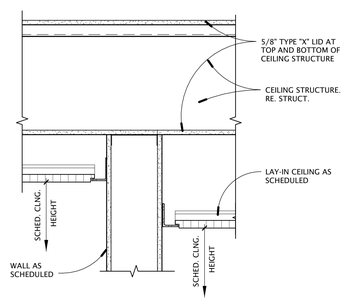
10 AE-621 OPERABLE PARTITION BASE
3" = 1'-0"



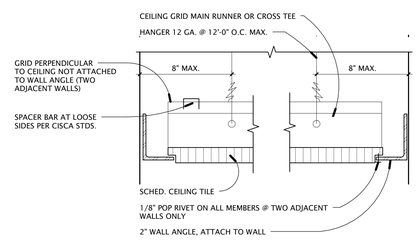
6 AE-621 CEILING DETAIL
1 1/2" = 1'-0"



13 AE-621 CEILING DETAIL
1 1/2" = 1'-0"



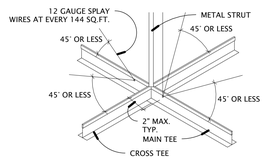
9 AE-621 CEILING DETAIL
1 1/2" = 1'-0"



5 AE-621 STANDARD-CLIP ANGLE DETAIL
3" = 1'-0"

NOTE 1 - ALL HANGER WIRES TO BE IN LINE WITH ATTACHED COMPONENT OR SHALL BE COUNTERSLOPED NOT GREATER THAN 1/6

NOTE 2 - ALL HANGER WIRES TO BE TAUT AND TIED BOTH ENDS W/ MIN. OF 4 TURNS IN 1" OF RUN.



NOTE 1- ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENT.

NOTE 2- ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF THREE TURNS IN 1" OF RUN.

NOTE 3- COMPLY WITH IBC 2009, CISCA 3-4 & ASCE7 9.6.2.6., ASCE 13.5.6.2.2 & ASTM C636-96

NOTE 4- SPLAY WIRES SHALL ATTACH TO STRUCTURAL GIRDER OR JOIST ONLY, DO NOT ATTACH TO ROOF DECK.

NOTE 5- METAL STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES.

NOTE 6- ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. WHEN HEAVY SYSTEMS ARE USED, ATTACH NO. 12 GAGE HANGERS TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. LIGHT FIXTURES WEIGHING LESS THAN 56 LBS. SHALL HAVE TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. COMPLY WITH IBC STANDARDS.

NOTE 7- CEILING-MOUNTED AIR TERMINALS WEIGHING LESS THAN 20 LBS. SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS. TERMINALS OR SERVICES WEIGHING 20 LBS., BUT NOT MORE THAT 56 LBS., SHALL IN ADDITION HAVE TWO NO. 12 GAGE HANGERS CONNECTED TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. TERMINALS OR SERVICES WEIGHING MORE THAN 56 LBS. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS. COMPLY WITH IBC STANDARDS

1 AE-621 SEISMIC CEILING BRACING
1 1/2" = 1'-0"

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

CEILING DETAILS

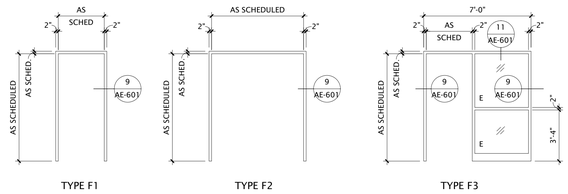
Construction Documents

AE-621

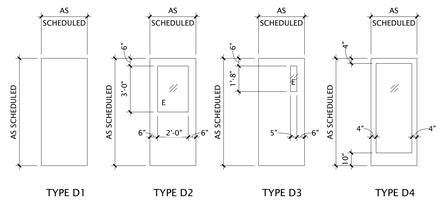
GLAZING SCHEDULE

A	= 1" TEMPERED INSULATED CLEAR GLASS
B	= 1" INSULATED CLEAR GLASS
C	= 1/4" TEMPERED CLEAR GLASS
D	= 1/4" CLEAR GLASS
E	= 1/4" 20 MIN. FIRE RATED GLASS. TEMPERED
F	= SPANDREL GLASS

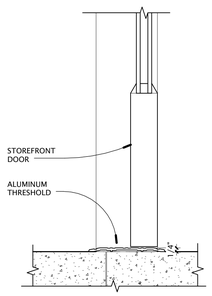
FIELD VERIFY ALL WINDOW OPENINGS BEFORE PROCEEDING WITH MANUFACTURING.



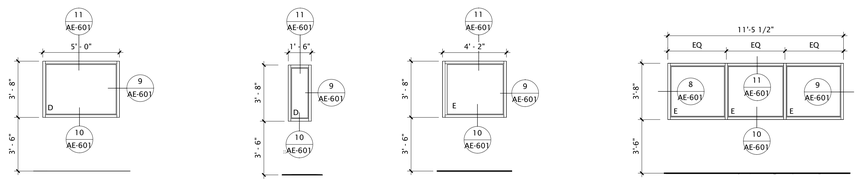
19 AE-901 H.M. FRAME TYPES
1/4" = 1'-0"



18 AE-901 DOOR TYPES
1/4" = 1'-0"



20 AE-901 TYPICAL TRESHOLD DETAIL
3" = 1'-0"

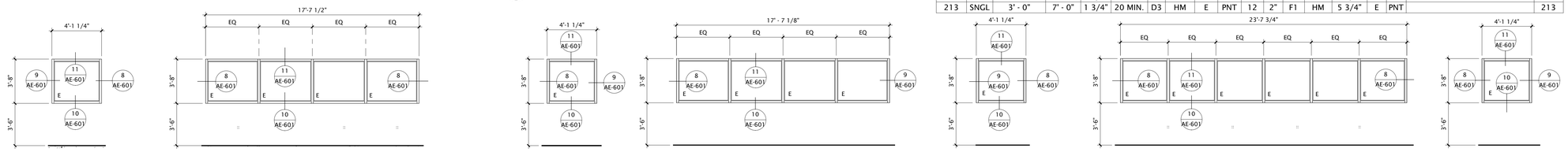


17 AE-901 W16
1/4" = 1'-0"

16 AE-901 W15
1/4" = 1'-0"

15 AE-901 W14
1/4" = 1'-0"

14 AE-901 W13
1/4" = 1'-0"



13 AE-901 W12
1/4" = 1'-0"

12 AE-901 W11
1/4" = 1'-0"

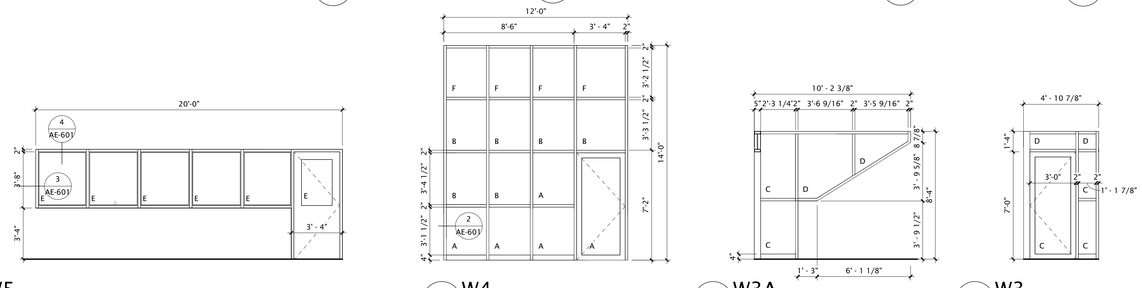
11 AE-901 W10
1/4" = 1'-0"

10 AE-901 W9
1/4" = 1'-0"

9 AE-901 W8
1/4" = 1'-0"

8 AE-901 W7
1/4" = 1'-0"

7 AE-901 W6
1/4" = 1'-0"



6 AE-901 W5
1/4" = 1'-0"

5 AE-901 W4
1/4" = 1'-0"

4 AE-901 W3A
1/4" = 1'-0"

3 AE-901 W3
1/4" = 1'-0"

2 AE-901 W2
1/4" = 1'-0"

1 AE-901 W1
1/4" = 1'-0"

DOOR SCHEDULE

Door Number	DOOR Panels	Width	Height	Thickness	Fire Rating	Type	Material	Glazing	Finish	Hardware	FRAME Head Height	Type	Material	Depth	Glazing	Finish	Remarks	Door Number
98A	DBL	6' - 0"	7' - 0"			D7	ALUM		DB	C	0"		ALUM	0"		CLR		98A
98B	DBL	6' - 0"	7' - 0"			D7	ALUM		DB	D	0"		ALUM	0"		CLR		98B
98C	SNGL	3' - 0"	7' - 0"	1 3/4"		D4	GLS		CLR	C	2"	F1	ALUM	5 3/4"	-	CLR		98C
100	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D4	ALUM	A	DB	B	2"		ALUM	4 1/2"	-	DB	DARK BRONZE	100
102	SNGL	3' - 0"	7' - 0"	1 3/4"	90 MIN.	D3	HM	E	PNT	07	2"	F1	HM	5 3/4"	E	PNT		102
102A	SNGL	2' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	13	2"	F1	HM	4 1/4"	-	PNT		102A
104	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D3	HM	E	PNT	13	2"	F1	HM	5 3/4"	E	PNT	"MAX. OCC. LOAD 5", SIGN ON DR	104
105	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D3	HM	C	PNT	DET.	2"	F1	HM	4"	E	PNT	LOCKS 1010A/1017	105
106	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D3	HM	C	PNT	DET.	2"	F1	HM	4"	E	PNT	LOCKS 1010A/1017	106
107	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D3	HM	C	PNT	DET.	2"	F1	HM	4"	E	PNT	LOCKS 1010A/1017	107
108	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D3	HM	C	PNT	DET.	2"	F1	HM	4"	E	PNT	LOCKS 1010A/1017	108
109	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D3	HM	C	PNT	DET.	2"	F1	HM	4"	E	PNT	LOCKS 1010A/1017	109
110	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	06	2"	F1	HM	5 3/4"	-	PNT		110
110A	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	06	2"	F1	HM	5 3/4"	-	PNT		110A
110B	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	06	2"	F1	HM	5 3/4"	-	PNT		110B
111	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	07	2"	F1	HM	5 3/4"	-	PNT		111
112	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	08	2"	F1	HM	5 1/4"	-	PNT		112
112A	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	08	2"	F1	HM	5 1/4"	-	PNT		112A
113	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D1	HM	-	PNT	27	2"	F1	HM	5 3/4"	-	PNT		113
114	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D3	HM	E	PNT	12	2"	F1	HM	5 3/4"	E	PNT		114
114A	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D3	HM	E	PNT		2"	F1	HM	5 3/4"	E	PNT		114A
114B	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D2	HM	B	PNT	22	2"	F1	HM	5 3/4"	-	PNT		114B
114C	SNGL	12' - 0"	10' - 0"	2"	-	D6	STL	-	PNT		-	-	-	-	-	-	COILING OVERHEAD DOOR	114C
115	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D1	HM	-	PNT	20	2"	F1	HM	5 3/4"	-	PNT		115
117	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D1	HM	-	PNT	26	2"	F1	HM	5 3/4"	-	PNT		117
118	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D2	HM	B	PNT	19	2"	F1	HM	5 3/4"	-	PNT		118
119	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D1	HM	-	PNT	24	2"	F1	HM	5 3/4"	-	PNT		119
120	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D2	HM	B	PNT	25	2"	F1	HM	5 3/4"	-	PNT		120
123	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	09	2"	F1	HM	5 3/4"	-	PNT		123
124	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D1	HM	-	PNT	18	2"	F1	HM	5 3/4"	-	PNT		124
125	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D1	HM	-	PNT	16	2"	F1	HM	5 3/4"	-	PNT		125
127	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		127
128	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		128
129	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		129
130	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		130
131	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		131
132	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	WD	B	STN	06	2"	F1	HM	7 3/8"	-	PNT		132
132A	SNGL	3' - 0"	7' - 0"	1 3/4"		D1	HM	-	PNT		2"	F1	HM	5 3/4"	-	PNT	NEW DOOR IN EXISTING FRAME	132A
134	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	17	2"	F1	HM	5 3/4"	-	PNT		134
135	SNGL	3' - 2"	7' - 0"	1 3/4"		D4	ALUM	A	DB	A	2"		ALUM	4 1/2"	-	DB	DARK BRONZE	135
136	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	09	2"	F1	HM	5 3/4"	-	PNT		136
137	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	12	2"	F1	HM	5 3/4"	-	PNT		137
138	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	12	2"	F1	HM	9"	-	PNT		138
140	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D3	HM	E	PNT	14	2"	F1	HM	5 3/4"	E	PNT		140
140A	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	13	2"	F1	HM	5 3/4"	-	PNT		140A
140B	SNGL	3' - 0"	7' - 0"	1 3/4"		D1	HM	-	PNT		2"	F1	HM	5 3/4"	-	PNT	NEW DOOR IN EXISTING FRAME	140B
141	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		141
142	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		142
143	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		143
144	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		144
146	SNGL	3' - 0"	7' - 0"	1 3/4"		D1	HM	-	PNT		2"	F1	HM	5 3/4"	-	PNT	NEW DOOR IN EXISTING FRAME	146
147	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	10	2"	F1	HM	5 3/4"	-	PNT		147
148	SNGL	3' - 6"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	13	2"	F1	HM	5 3/4"	-	PNT		148
149	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	15	2"	F1	HM	5 3/4"	-	PNT		149
150	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	08	2"	F1	HM	5 3/4"	-	PNT		150
151	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	08	2"	F1	HM	5 3/4"	-	PNT		151
152	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D3	HM	E	PNT	23	2"	F1	HM	5 3/4"	E	PNT		152
152A	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D3	HM	E	PNT	04	2"	F1	HM	5 3/4"	E	PNT		152A
153	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D1	HM	-	PNT	18	2"	F1	HM	5 3/4"	-	PNT		153
154	PR	6' - 0"	7' - 0"	1 3/4"	20 MIN.	D3	HM	B	PNT	11	2"	F2	HM	5 3/4"	-	PNT		154
154A	SNGL	3' - 0"	7' - 0"	1 3/4"		D1	HM	-	PNT	C	2"	F1	HM	5 3/4"	-	PNT	NEW DOOR IN EXISTING FRAME	154A
155	SINGL	5' - 0"	3' - 8"	1/2"	90 MIN.												COILING DOOR	155
200	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D4	ALUM	A	DB	28	2"		ALUM	4 1/2"	-	DB	DARK BRONZE	200
200A	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	05	4"	F1a	HM	5 3/4"	-	PNT		200A
200B	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	05	2"	F1	HM	5 3/4"	-	PNT		200B
201	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	B	PNT	17	2"	F1	HM	7 5/8"	-	PNT		201
202	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		202
203	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		203
204	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		204
205	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		205
206	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	21	2"	F1	HM	5 3/4"	-	PNT		206
207	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D1	HM	-	PNT	27	2"	F1	HM	5 3/4"	-	PNT		207
208	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		208
209	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		209
210	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		210
211	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D2	HM	E	PNT	08	2"	F3	HM	5 3/4"	E	PNT		211
212	SNGL	3' - 0"	7' - 0"	1 3/4"	-	D1	HM	-	PNT	20	2"	F1	HM	5 3/4"	-	PNT		212
213	SNGL	3' - 0"	7' - 0"	1 3/4"	20 MIN.	D3	HM	E	PNT	12	2"	F1	HM	5 3/4"	E	PNT		213

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REVISIONS:

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133431
LICENSED ARCHITECT

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	10124120
GSBS PROJECT NO.:	2011.081.00
ISSUED DATE:	4/11/2012

DOOR & WINDOW SCHEDULES

Construction Documents

AE-901

GENERAL STRUCTURAL NOTES

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REVISIONS:

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected elements.
4. Drawings shall not be scaled for the purpose of preparing shop drawings or for construction. Where dimensions on the design drawings are not provided or inferred, the contractor may scale drawings only to estimate member lengths for the purpose of bidding.
5. Changes to these contract drawings may be made only by an authorized representative of Dunn Associates, Inc. Dunn Associates, Inc. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of Dunn Associates, Inc.
6. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
7. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions, or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
8. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer. Contractor shall take measures as required to insure that construction loads shall not exceed design loads for the structure.
9. The contractor shall be responsible for means, methods, techniques, sequences, and procedures in order to comply with the contract drawings and specifications. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed.
10. Site observations by a field representative of Dunn Associates, Inc. shall not be construed as approval of construction, the procedures, nor special inspection.
11. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. See the Architectural Drawings for dimensions, doors, windows, non-bearing interior and exterior walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, etc.
12. The Contractor may choose to submit shop drawings and submittals for review electronically. The Contractor may do this provided a minimum of one hard copy set is submitted for review. The submittal will be stamped as received by Dunn Associates, Inc. when the hard copy is received by our office. Hard copies of small submittals need not be submitted if the Contractor receives the approval for this exception by the Engineer of Record.
13. Review of shop drawing submittals by Dunn Associates, Inc. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
14. Shop drawings made from reproductions of the structural drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed. The contractor may also obtain electronic files of the plan sheets after signing a release agreement. Electronic files of the detail sheets and schedule sheets will not be made available.
15. All work shall be done in accordance with OSHA requirements. Potential conflicts between these documents and OSHA requirements shall be brought to the attention of the structural engineer before proceeding with the work.

BASIS OF DESIGN

1. Governing Building Code ..... International Building Code 2009
2. Occupancy Category II
3. Floor Live Loads
   - 3.1. Uniformly Distributed Loads
     - 3.1.1. Dormitories ..... 80 psf
     - 3.1.2. Lobbies & Main Floor Corridors ..... 100 psf
     - 3.1.3. Corridors Above Main Floor ..... 80 psf
     - 3.1.4. Light Storage ..... 125 psf
     - 3.1.5. Storage Areas Above Ceiling ..... 20 psf
   - 3.2. Concentrated Loads, all areas ..... 2000 lbs
4. Roof Live Load (Not concurrent with Roof Snow Load) ..... 20 psf
5. Roof Snow Load
   - 5.1. Ground Snow Load ..... Pg = 43 psf
   - 5.2. Flat Roof Snow Load ..... Pf = 30 psf
   - 5.3. Snow Exposure Factor ..... Ce = 1.0
   - 5.4. Thermal Factor ..... Ct = 1.0
   - 5.5. Snow Load Importance Factor ..... Is = 1.0
6. Wind Load
   - 6.1. Basic Wind Speed (3 Second Gust) ..... 90 mph
   - 6.2. Wind Importance Factor 1.00
   - 6.3. Wind Exposure C
   - 6.4. Internal Pressure Coefficient ..... ± 0.18
7. Seismic Design Criteria
   - 7.1. Mapped Spectral Response Accelerations
     - 7.1.1. Short Period Acceleration ..... SS = 1.684
     - 7.1.2. 1-Second Acceleration ..... S1 = 0.676
   - 7.2. Spectral Response Coefficients
     - 7.2.1. Short Period Acceleration ..... SDS = 1.122
     - 7.2.2. 1-Second Acceleration ..... SD1 = 0.676
   - 7.2. Site Class (Soil Profile) ..... D
   - 7.3. Seismic Importance Factor 1.0
   - 7.4. Seismic Design Category ..... D
   - 7.5. Effective Structural Seismic Weight ..... W
   - 7.6. Basic Seismic Force Resisting System ..... Ordinary Steel Moment Frames/ Ordinary Steel Concentrically Braced Frames Light Framed Steel Sheet Shearwalls
     - 7.6.1. Response Modification Coefficient ..... R = 3.50 / 3.25 / 6.5
     - 7.6.2. System Overstrength Factor ..... Ω0 = 3.0 / 2.0 / 3.0
     - 7.6.3. Deflection Amplification Factor ..... CD = 3.0 / 3.25 / 4.0
     - 7.6.4. Design Base Shear ..... V = Cs*W = 0.32*W / 0.345*W / 0.173*W
   - 7.7. Analysis Procedure ..... Equivalent Lateral Force
8. Serviceability Criteria
   - 8.1. Interstory Seismic/Wind Drift ..... Δa < 0.02h ('h' is story height)
   - 8.2. Deflection Limits ..... Total ..... Live/Snow
     - Floor ..... L/360 ..... L/480
     - Roof ..... L/120 ..... L/180

FOUNDATION

1. Soils Report by: ..... GSH Geotechnical Consultants, Inc.
2. Report Number & Date: ..... 0128-086-12, January 27, 2012
   ..... Amendment Letter dated February 8, 2012
3. Soil Bearing Pressure: ..... 2000 psf, on undisturbed native soils or fill
4. Frost Protection: ..... 30 inches minimum
5. Lateral Soil Pressure Fluid Equivalent Density:
   - 5.1. Passive ..... 300 pcf
6. Coefficient of Friction 0.4
7. The soils engineer shall review all excavations and fill placement prior to placing concrete.

EARTHWORK

1. Clearing: The entire building area shall be scraped to remove all vegetation and debris. All non-engineered fill shall be removed from below the new construction. The required depth of removal may vary. See soils report.
2. Contractor is to provide temporary shoring for excavations as required.
3. Contractor is to provide measures necessary to prevent damage to or settlement of new or existing construction and utilities on or adjacent to project site.
4. Contractor is to provide dewatering as required to protect the site from flooding.
5. Proof rolling: The natural undisturbed soil below all footings shall be proof rolled prior to placing concrete. Remove all soft spots and replace with compacted structural fill.
6. Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 4" and with not more than 10% passing a #200 sieve. It shall be compacted to 95% of the maximum laboratory density as determined by ASTM D 1557. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 8" in uncompacted thickness.
7. Consult the project specifications and soils report for further earthwork requirements. The soils engineer shall review all excavations and fill placement prior to placing concrete.

CONCRETE

1. Concrete shall be supplied in accordance with ACI 318 and the following requirements:

Concrete Use	Comp. Strength f'c (psi)	Exposure Classes	Cement Type[a]	Max. W/CM Ratio	Max. Flyash	Air Content[b,c]	Aggregate Size, Max.	Slump Limit[d]
Interior Footings	4000	F0, S1, P0, C0	II, V	0.45	25%	1.5%	3/4"	5"
Exterior Footings	4500	F1, S1, P0, C1	II, V	0.45	25%	5%	3/4"	4"
Foundation Walls	4500	F1, S1, P0, C1	II, V	0.45	25%	5%	3/4"	4"
Interior Slabs on Grade	4000	F0, S1, P0, C0	II, V	0.45	25%	1.5%	3/4"	5"
Normal Wt. Concrete on Steel Deck or Geofoam	3500	F0, S0, P0, C0	I, II	0.45	25%	1.5%	3/4"	4"

Table Footnotes:

a. Cement to comply with ASTM C150. Use Type V cement where required by soils report.
b. Air content ± 1.5%, measured at point of final placement. Air-entraining admixtures shall comply with ASTM C260 (when used). Calcium chloride shall not be added to the concrete mix. Unreinforced concrete slabs on grade may have calcium chloride not exceeding one percent.
c. Air entrainment shall be adjusted for the use of admixtures and fly ash.
d. Slump limit ± 1" applies to non-plasticized concrete. Test shall be conducted prior to adding plasticizer if used.

2. Materials unless noted otherwise:
   - 2.1. Normal Weight aggregates ..... ASTM C33
   - 2.2. Fly Ash, Class F Pozzolan ..... ASTM C618
   - 2.3. Reinforcing Steel
     - 2.3.1. General ..... ASTM 615 Grade 60
   - 2.4. Deformed Bar Anchors (DBA) ..... ASTM A496
   - 2.5. Headed Stud Anchors (HSA) ..... ASTM A108
   - 2.6. Anchor Bolts: See steel and/or wood section(s) of general notes.
   - 2.7. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
   - 2.8. Geofoam used under platform slabs shall be expanded polystyrene block conforming to ASTM D6817 and shall have a minimum density of 0.90 pcf and a minimum compressive resistance of 3.6 psi at 1% deformation. Multi-barbed plates or similar method shall be used to restrain the Geofoam from moving laterally between layers.
3. Reinforce composite slabs over metal deck with 6" x 6" - W2.1/W2.1 welded wire reinforcement minimum, unless noted otherwise. Welded wire reinforcement shall be placed 1" to 1 1/2" below the top of the slab. Welded wire reinforcement may be substituted with "Fibermesh Fibers" manufactured by Propex Concrete Systems Corporation, as approved by ICC ER-4811. The rate of fiber application shall be based on ICC ER-4811. Other substitutions may be permitted if an ICC Evaluation report is submitted to and approved by the Structural Engineer.
4. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   - 4.8. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
   - 4.9. Suspended slabs shall be re-supported after form removal until concrete reaches its 28-day specified compressive strength.
5. Reinforcement shall have the following concrete cover: ..... Clear Cover
   - 5.1. Cast-in-place Concrete
     - 5.1.1. Cast against and permanently exposed to earth ..... 3"
     - 5.1.2. Formed concrete exposed to earth or weather:
       - #6 thru #18 bars ..... 2"
       - #5 and smaller bars ..... 1 1/2"
     - 5.1.3. Concrete not exposed to weather or in contact with ground:
       - Slabs, Walls, Joists; #11 bars and smaller ..... 3/4"
       - Beams, Columns: Primary Reinforcement, Ties, ... 1 1/2"
       - Stirrups, Spirals
6. Construction Joints and Control Joints:
   - 6.1. Provide a beveled 2" x 4" x continuous keyway in all horizontal and vertical construction joints including between top of footing and foundation walls. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4".
   - 6.2. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by either:
     - 6.2.1. Saw cut with depth of 1/4 the thickness of the slab
     - 6.2.2. Tooled joints with depth of 1/4 the thickness of the slab
   - 6.3. Install construction or control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" on center in any direction.
7. Construction
   - 7.1. Use chairs or other support devices recommended by the CRSI to support bar and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" on center maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
   - 7.2. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
   - 7.3. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
   - 7.4. No pipes, ducts, sleeves, etc. shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
   - 7.5. Reinforcing bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBAs or HSAs.
   - 7.6. Top of concrete columns shall be flush (±1/4") with bottom of supported cast-in-place members.
8. Detailing:
   - 8.1. Lap splice lengths shall be detailed to comply with the "Reinforcing Bar Lap Splice Schedule" contained within the contract drawings.
     - 8.1.1. Do not splice stirrups and ties. Do not splice vertical bars in retaining walls unless specifically shown.
     - 8.1.2. At shearwall boundary elements and at moment frame beams to columns, lap lengths shall be increased by 25%.
     - 8.1.3. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all ACI requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
   - 8.2. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
   - 8.3. At all discontinuous control or construction slab on grade joints, provide (2) #4 x 48".
   - 8.4. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
   - 8.5. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90° standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#6 bars and smaller) with hooks need not extend more than 20" into footings.
   - 8.6. See details for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.
   - 8.7. Reference ACI 315 for additional detailing requirements.
9. Contractor required to submit concrete mix design for review by the engineer prior to any placement of concrete.
10. Contractor shall refer to and follow the recommendations in ACI 305R for hot weather concreting and ACI 306R for cold weather concreting.
11. Contractor is not to backfill against retaining walls unless walls have achieved design strength or have been shored. Contractor is not to backfill against basement walls without placement of the main floor diaphragm unless the walls have been shored or approval of the EOR has been granted, or it has been noted otherwise on the design drawings.
12. Construction activity or storage of materials shall not take place on newly placed concrete for a minimum of 7 days after concrete placement.

PREFABRICATED MODULAR CELL UNITS

1. The fabricator shall be an "Approved Fabricator" in accordance with IBC section 1704.2, registered and approved by the building official.
2. See architectural floor plans for dimensions, openings, finish conditions, etc. Verify all dimensions prior to fabricating units.
3. Design Calculations: Prior to fabrication and installation of modular units, the supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a registered professional engineer, licensed in the same state as the building is to be built. Units shall be designed for construction, handling, and in-place code prescribed loads and any additional loads shown on the drawings. All connections and embeds shall be by the unit manufacturer including connection to the foundation.

POST-INSTALLED ANCHORS

1. Post-installed anchors shall only be used where specifically detailed or called for on the design drawings. If circumstances arise during construction where the Contractor desires to substitute a post-installed anchor in place of a cast-in-place anchor, the Contractor shall submit a formal written request for each circumstance to the Architect and Engineer for review.
2. Follow all ICC Evaluation Report and manufacturers' requirements and recommendations for post-installed anchor installation. Where conflicts may exist, the most stringent requirement applies.
3. Follow manufacturer and ICC evaluation report requirements for installation temperature of adhesive anchors. Adhesive anchors shall not be installed or cured outside of approved temperature ranges.
   - 3.1. Adhesive anchors in concrete (normal weight only) shall be
     - 3.1.1. HIT RE-500 SD by Hilti (ESR-2322)
     - 3.1.2. HIT HY-150 MAX-SD by Hilti (ESR-3013)
     - 3.2.3. SET-XP by Simpson (ESR-2508)
     - 3.2.4. PE1000+ by Powers Fasteners (ESR-2583) - 1/2" to 7/8" diameter only
   - 3.3. Adhesive anchors in grouted masonry shall be
     - 3.3.1. HIT HY-150 MAX by Hilti (ESR-1967)
     - 3.3.2. SET by Simpson (ESR-1772)
4. Mechanical (Expansion) anchors
   - 4.1. Mechanical anchors in concrete shall be
     - 4.1.1. Kwik Bolt TZ by Hilti (ESR-1917)
     - 4.1.2. Kwik HUS-EZ by Hilti (ESR-3027)
     - 4.1.3. Strong-Bolt by Simpson (ESR-1771)
     - 4.1.4. Strong-Bolt 2 by Simpson (ESR-3037)
     - 4.1.5. Titen HD by Simpson (ESR-2713)
     - 4.1.6. Trubolt+ by ITW Redhead (ESR-2427)
   - 4.2. Mechanical anchors in grouted masonry shall be
     - 4.2.1. Kwik Bolt 3 by Hilti (ESR-1385)
     - 4.2.2. Titen HD by Simpson (ESR-1056)
     - 4.2.3. Wedge-All by Simpson (ESR-1396)
5. The Contractor may submit, for review and approval, the manufacturer's ICC evaluation report of alternate anchor systems. The alternate method shall provide minimum capacities equal to or greater than those in the above noted anchors. The alternate method shall be approved by the engineer of record prior to the substitution.
6. Special Inspection and Testing
   - 6.1. Special inspection shall be performed according to the requirements of the ICC evaluation report, per section 1704.15 of the IBC. Periodic inspection is allowed for mechanical anchors per section 6.6 of ICC-ES AC193.
   - 6.2. Testing shall be done according to the more stringent requirements of the ICC evaluation report and the values listed below.
     - 6.2.1. Adhesive Anchors in Concrete or Solid Grouted Masonry: 50% of anchors in non-redundant elements (e.g. column, brace connections, boundary steel, hold-downs) and 10% of anchors in redundant elements shall be tension tested at the following loads in kips:

Bar Size	Concrete	Masonry
#4	2.7	1.8
#5	4.3	2.8
#6	6.0	5.0
#7	7.5	-

     - 6.2.2. Mechanical anchors shall be tension tested to twice the allowable tension load listed in the ICC evaluation report.

STRUCTURAL STEEL

1. Codes and Standards: Fabrication and installation shall comply with the latest edition of the following:
   - 1.1. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary"
   - 1.2. AISC "Code of Standard Practice" excluding sections 3.4, 4.4 and 4.4.1.
   - 1.3. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
   - 1.4. AISC "Seismic Provisions for Structural Steel Buildings."
   - 1.5. American Welding Society (AWS), Structural Welding Codes D1.1, D1.3, D1.4, and D1.8, except as modified by the "Steel Construction Manual".
2. Material:
   - 2.1. Wide Flange Sections ..... ASTM A992 (50 ksi)
   - 2.2. Plate
     - 2.2.1. Steel Plate for Retrofit of Existing Beams and Columns ..... ASTM A572 Gr 50 (50 ksi)
     - 2.2.2. Typical ..... ASTM A36
   - 2.3. Minimum Charpy V-Notch requirements are 20 ft-lbs at 70°F.
   - 2.4. Notch-toughness requirements apply for demand critical welds. Minimum Charpy V-Notch requirements are 20 ft-lbs at -20°F and 40 ft-lbs at 70°F
   - 2.5. Pipe ..... ASTM A53 Grade B Type E/S
   - 2.6. Hollow Structural Shapes
     - 2.6.1. Rectangular ..... ASTM A500 Grade B (46 ksi)
     - 2.6.2. Round ..... ASTM A500 Grade B (42 ksi)
   - 2.7. Other Structural Shapes (M, C, etc) ..... ASTM A36
   - 2.8. Bolted Connections ..... ASTM A325
   - 2.9. Anchor Bolts
     - 2.9.1. All Columns unless noted otherwise: ASTM F1554 Grade 36 with ASTM A563 heavy hex nuts with Grade A hardened washers.
   - 2.10. Weld Filler Metal
     - 2.10.1. Shielded Metal Arc Welding ..... AWS A5.1, low-hydrogen only
       Low-hydrogen restrictions do not apply when welding sheet steels in accordance with AWS D1.3, including attaching these steels to structural members.
     - 2.10.2. Gas-Metal & Metal-Cored Arc Welding ..... AWS A5.18
     - 2.10.3. Flux-Cored Arc Welding ..... AWS A5.20
       E7XT-4 or E7XT-11 electrodes are not permitted.
     - 2.10.4. Intermixing of welds made from self-shielded welding electrodes with welds made by other processes is not allowed in seismic critical welds, unless tested in accordance with AWS D1.8, annex B. The Field Erection Contractor is responsible for verifying that intermixing of self-shielded weld metal with weld metal of other processes will not occur, or alternatively, the welding procedure is qualified by testing.
   - 2.11. Deformed Bar Anchors (DBA) ..... ASTM A496
   - 2.12. Headed Stud Anchors (HSA) ..... ASTM A108
   - 2.13. Non-Shrink Grout ..... ASTM C1107 Grade B
     - Non-shrink grout shall be prepackaged, non-metallic and non-gaseous.
     - Furnish certified independent test data to Structural Engineer.
     - Fluid Consistency (flow cone) = 20 to 30 seconds
     - Compressive Strength in 28 days = 7,500 psi
3. Structural Detailing
   - 3.1. Provide full depth web stiffener plates at each side of all beams at all bearing points. Stiffener plates shall be the thickness called out below unless noted otherwise. Stiffeners shall be welded on both sides of the plate-to-flange and plate-to-web interfaces. Do not weld into the web-to-flange fillet region of the member.
     - FLANGE WIDTH ..... STIFFENER THICKNESS & WELD SIZE
     - Less than 8 1/4" ..... 1/4" & 3/16"
     - 8 1/4" to 12 1/4" ..... 3/8" & 1/4"
     - 12 1/4" to 16 1/2" ..... 1/2" & 5/16"
     - 16 1/2" to 20 3/4" ..... 5/8" & 3/8"
   - 3.2. Bolting and Fasteners
     - 3.2.1. Ordinary steel-to-steel connections, simple span framing, and beam/girder-to-bearing plates are the standard connection used throughout the design drawings, unless noted otherwise:
       - 3.2.1.1. Use A325N bolts or tension-controlled bolts.
       - 3.2.1.2. Tighten these fasteners to a "snug tight" condition.
       - 3.2.1.3. Where a steel-to-steel connection is not shown, provide a framed connection per AISC for one half the total uniform load capacity of the beam for the span and steel specified.
     - 3.2.2. Pretensioned connections are shown on the structural design drawings. They join steel-to-steel connections, unless noted otherwise:
       - 3.2.2.1. Use A325N or A325X bolts or tension-controlled bolts.
       - 3.2.2.2. Pretension these fasteners as required by AISC "Specification for Structural Joints Using ASTM A325 or a A490 bolts."
     - 3.2.3. Slip Critical connections (SC) are shown on the structural design drawings. They join steel-to-steel connections in Seismic Load-Resisting Systems (SLRS).
     - 3.2.4. Fasteners and washers shall not be reused. Scrap dirty, rusted, or water-contaminated bolt assemblies.
   - 3.3. Weld Access Holes and Temporary Attachments
     - 3.3.1. Fabricate beam copes and weld access holes using the geometry described in AISC 360 Section J1.6.
     - 3.3.2. Runoff tabs are to be removed unless noted otherwise.
   - 3.4. Field weld symbols indicate welds that may be performed in the field. The general contractor shall coordinate shop and field welds between the fabricator and erector.
   - 3.5. All structural steel members shall be considered as an unrestrained fire-resistance-rated assembly.
4. Welding of Reinforcing Steel or Bolts
   - 4.1. Reinforcing Bars: Do not weld rebar except as specifically detailed in the drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for deformed bar anchors, structural bolts, or headed stud anchors.
   - 4.2. Do not weld anchor bolts, including "tack" welds.
   - 4.3. Headed Stud Anchor welding and Deformed Bar Anchor welding shall conform to the manufacturer's specifications.

COMPOSITE STEEL BEAMS

1. All beams supporting concrete over metal deck shall have headed stud anchors.
2. Composite beams are indicated on the framing plans with a suffix (nn). The number inside parentheses indicates the number of studs for this beam or section of beam. Beams or sections of beams shall have the studs spaced uniformly over the beam or section. The maximum spacing shall not exceed 36" on center.
3. All headed stud anchors shall conform to ASTM A-108. Dimensions shall comply with AISC. Use 3/4" diameter studs. Headed studs shall extend 1 1/2" minimum (2" maximum) above the top of the steel deck after welding. Headed studs shall be applied through the metal deck to the top flange of the steel section or welded directly to the steel section.
4. The minimum on center spacing of stud connectors shall be 6 diameters along the longitudinal axis of the supporting composite beam and 4 diameters transverse to the longitudinal axis of the supporting composite beam.
5. Composite beams shall be precambered as shown on plans. On the plans, c=0.00" denotes precamber dimension (upward) in inches.
6. Camber tolerance shall be +1/4", -0".
7. Slab shall be screeded to a constant thickness as indicated.

METAL DECKING

1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.
2. Steel deck material shall comply with the manufacturer's ICC Report and have a minimum yield strength of 33ksi.
3. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gauge deck as required to provide the equivalent loading of the specified deck under a 3-span condition.
4. Steel roof deck shall not be used to support loads from plumbing, fire sprinklers, HVAC ducts, light fixtures, architectural elements, or equipment of any kind, unless specifically noted.
5. Conduits are permitted in deck slabs subject to local code requirements and fire rating considerations. When conduit is installed in the slab, it shall be limited to conduits having a diameter of 1" or less, or less than 1/3 the concrete cover, and no crossovers occur, and conduit is spaced at least 18" apart with a 3/4" minimum cover.
6. All members supporting deck shall be dry before welding.
7. Crimp seams before button punching or welding interlocking seams.
8. Where deck is to receive sprayed-on fire proofing, painted deck shall be coated with special paint that will allow the sprayed-on fire proofing to adhere to the painted deck.
9. All welds performed on the steel deck are to be painted.
10. Steel deck shall be galvanized (G60) when used above or below mechanical equipment rooms.
11. Steel floor deck fastened to steel studs shall be phosphatized/painted, composite, with interlocking side seams with the following minimum properties:
    - Type/Ga ..... Si(in3/ft) ..... I (in4/ft) ..... Concrete (Total) ..... Allowable shear value
    - 1-1/2" VL/22 ..... 0.179 ..... 0.177 ..... 2 1/2" (4") NW ..... 633 plf for 3'-0" span
    - Fasten deck to supporting framing members with #12 TEK screws at the following spacing (Closer spacings may be used to develop minimum shear requirements):
      - 11.1.1. 6" on center to supports perpendicular to deck corrugations (7 screws per 36" wide sheet).
      - 11.1.2. 6" on center to all supports parallel to deck corrugations.
    - 11.1. Attach interlocking seams with #10 TEK screws at 6" oc between adjacent pieces of deck. Closer spacings may be used to develop minimum shear requirements.
    - 11.2. Provide a 2" minimum bearing at all supports.
    - 11.3. Butt all end splices.
12. Steel deck at ceiling levels shall be painted with interlocking side seams with the following minimum properties:
    - Type/Ga ..... Si(in3/ft) ..... I (in4/ft) ..... Allowable shear value
    - 1-1/2" VL/22 ..... 0.179 ..... 0.177 ..... 524 plf for 3'-0" span
    - Fasten deck to supporting framing members with #12 TEK screws at the following spacing (Closer spacings may be used to develop minimum shear requirements):
      - 11.1.1. 6" on center to supports perpendicular to deck corrugations (7 screws per 36" wide sheet).
      - 11.1.2. 6" on center to all supports parallel to deck corrugations.
    - 11.1. Attach interlocking seams with #10 TEK screws at 12" oc between adjacent pieces of deck. Closer spacings may be used to develop minimum shear requirements.
    - 11.2. The Contractor may submit, for review and approval, the manufacturer's ICC report of an alternate method of deck attachment. The alternate method shall provide minimum deck diaphragm shear values equal to or greater than those noted above. The alternate method shall be approved by the engineer of record prior to the substitution.
    - 11.3. Provide a 2" minimum bearing and an 4" lap at the splice points, centering the splice over the support.

03/19/2012
Construction Documents

NOTE:
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 02.03.2012

DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, i.e. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

PROFESSIONAL STRUCTURAL ENGINEER No. 295247 TAIT K. KETCHAM 03/19/2012 STATE OF UTAH

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PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

GENERAL STRUCTURAL NOTES

S-101

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GENERAL STRUCTURAL NOTES

COLD FORMED STEEL

1. Cold Formed Steel Framing
   - 1.1. The design, installation and construction of cold formed steel for structural and non-structural framing shall be in accordance with AISI-CFSD, Standard for Cold-Formed Steel Framing - General Provisions.
   - 1.2. All 16 gauge and heavier members shall be formed from steel corresponding to what is listed in AISI-CFSD with a minimum yield strength of 50 ksi unless specifically noted otherwise.
   - 1.2. All 18 gauge and lighter members shall be formed from steel corresponding to what is listed in AISI-CFSD with a minimum yield strength of 33 ksi unless specifically noted otherwise.
   - 1.3. All steel framing members shall comply with ASTM A1003, tables 2 and 3.
   - 1.4. Follow all manufacturers' guidelines and recommendations for all products.
2. Connection Notes
   - 2.1. Exterior framing shall be attached to primary structure to provide vertical and lateral drift as indicated in these drawings.
   - 2.2. All interior non-bearing steel stud walls that extend above the ceiling but do not attach to the structure above shall be braced with diagonal metal-stud braces (45°). The kl/r ratio of the brace shall not exceed 200 and shall not be spaced further apart than 10'-0" on center. Connect diagonal braces to the top of the steel stud walls and to the top flange of the steel beams with (2) #10 tek screws minimum. Where a concrete deck occurs above, use two powder-driven fasteners per diagonal brace. Other approved methods may be used.
   - 2.3. Anchor bolts: See steel section of general notes.
   - 2.4. If required, all welded connections are to be performed in accordance with AWS D1.1 and D1.3. All welds are to be touched-up with a rust inhibitive galvanizing paint.
     - 2.4.1. Suggested method for weld welding: 1/8" (unless noted otherwise) E60XX (minimum) electrode - SMAW or "gasless" MIG. Minimum weld throat thickness must match or exceed the base steel thickness of the thinnest connected part.
   - 2.5. All screws shall be of the diameter and size indicated on the drawings and shall be those manufactured and tested by ITW Buildex or equivalent. A minimum of 1/2 inch edge distance and 1/2 screw spacing is required unless noted otherwise. Screw penetration through joined materials shall not be less than three exposed threads. Select screws with an adequate cutting tip to accommodate the total thickness drilled. Drilling must be completed before the threads engage the material. See specifications for coating requirements on screws. Where screw attachments are made to framing components of different thickness, the thinnest component must be penetrated first.
   - 2.6. All connection hardware (examples: "StiffClip", "VertiClip", "DriftClip", "BridgeClip", etc) shown shall be supplied by:
     The Steel Network, Inc.
     3221 Wellington Court
     Raleigh, NC 27615
     Phone: (888) 474-4876
     www.steelnetwork.com
     - 2.6.1. Install all hardware per the manufacturer's guidelines and recommendations.
     - 2.6.2. The contractor may submit an alternate connection method for approval by Dunn Associates, Inc. and the Architect.
3. Sheet Steel Sheathing
   - 3.1. Steel sheets shall be ASTM A1003 Grade 33 Type H. See schedule for sheet steel thickness and screw spacings.
   - 3.2. Screws used to attach steel sheets shall be a minimum of #8 modified truss head screws and shall be of sufficient length to penetrate at least three exposed threads.
   - 3.3. Steel sheets may be installed either perpendicular or parallel to the framing members.
   - 3.4. All edges of the sheets shall be attached to framing members or flat strap blocking with edge screw spacing.
   - 3.5. Flat strap blocking shall be a minimum of 1 1/2" wide and of the same material and equal or greater thickness as the track and studs.

SPECIAL INSPECTION REQUIREMENTS

1. Seismic/Wind-force-resisting systems:
   - 1.1. Light framed shear walls
   - 1.2. Steel moment frames
   - 1.3. Ordinary Braced Frames

   See specific discipline drawings for additional designated seismic systems requiring special inspection which are not contained in the structural drawings.
2. Special inspection and testing as required by the IBC shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections/tests as indicated below, referring to the IBC section indicated as appropriate.
3. Special inspection reports from the inspector shall be sent to the architect/engineer and building official.
   - 3.1. Bring any discrepancies to the contractor's immediate attention.
   - 3.2. Notify the engineer of any non-passing work that the contractor cannot readily correct.
   - 3.3. Any uncorrected discrepancies shall be brought to the attention of the architect/engineer and building official prior to completion of that phase of the work.
   - 3.4. A final report documenting required special inspections and corrections of any discrepancies shall be provided.
4. Quality Control Submittals for Structural Steel
   - 4.1. Furnish Level III nondestructive testing (NDT) personnel certifications.
   - 4.2. Furnish welder qualification records to verify project welders are tested and qualified in accordance with AWS D1.1 before welding structural or miscellaneous steels, D1.3 before welding sheet steels (10 ga and thinner), and D1.4 before welding reinforcing steel. Submit documentation to the approved inspection agency for review before welding.
     - 4.2.1. Special, restricted welder qualification testing is required for welders joining the bottom-flange through the weld access hole connection in demand critical welds. Qualify welders for the minimum groove angle and maximum deposition rate used in production. Follow the instructions for supplemental qualification testing in AWS D1.8, Section 5.1. Qualification testing must take place within two years from the start of this project.
   - 4.3. Furnish welding procedures that comply with AWS D1.1, D1.3, D1.4, D1.8, as required by the project. Welding procedures shall be made available to welders and inspectors.
     - 4.3.1. Furnish weld filler metal product data sheets identifying optimum welding parameters and storage conditions with each welding procedure submittal.
     - 4.3.2. Identify the maximum welding heat input per inch of weld (KJ/in) permitted by the welding procedures.
     - 4.3.3. Identify the maximum deposition rate that will be used while welding on any demand critical weld.
     - 4.3.4. Furnish typical welding filler metal Certificates of Conformance that identify the WPS Heat Input Envelope.
   - 4.4. Furnish a preliminary welding repair procedure to follow should welding repairs be required within the Seismic Protected Zone.
   - 4.5. Provide bolt storage and installation procedures to the approved inspection agency for review.
   - 4.6. Provide mill/material test reports (MTR) or certificates of conformance (CofC) that verify compliance of furnished materials to the requirements of the approved contract documents. MTRs or CofCs are required for structural shapes, plate, metal deck, fasteners, headed studs, DBAs, weld filler metal, and bolt assemblies used as primary, load-bearing members. Maintain the heat number traceability of structural shapes and plate used as primary, load bearing members.
5. Special Inspectors
   - 5.1. Special inspectors shall be qualified persons who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection.
   - 5.2. Structural Steel Non-Destructive Testing (NDT)
     - 5.2.1. NDT personnel will:
       - 5.2.1.1. Qualify in accordance with the recommended practices of the American Society of Nondestructive Testing, SNT-TC-1A, latest edition.
       - 5.2.1.2. Pass eye examinations meeting: (1) ASTM requirements at least once a year, and (2) AWS D1.1 every three years.
       - 5.2.1.3. Be certified in accordance with the AWS QC-1, latest edition.
       - 5.2.1.4. Level III must be qualified by ASNT testing in the applicable method under review.
     - 5.2.2. Only Level II and Level III technicians, qualified by testing in the applicable method, are permitted to interpret nondestructive testing results.
     - 5.2.3. Only Senior Certified or Certified Welding Inspectors (SCWI, CWI) are permitted to evaluate welds. Certified Associate Welding Inspectors may evaluate welds when under the direct supervision of a SCWI and/or CWI.
   - 5.3. Approved Inspection Agency will certify the following:
     - 5.3.1. Level III inspector has reviewed the NDT procedures
     - 5.3.2. Project ultrasonic testing technicians, testing demand critical welds, are trained and qualified in accordance with AWS D1.8, Annex E
     - 5.3.3. That the Inspection Agencies' ultrasonic testing procedures are qualified by weld mockups similar to AWS D1.1, Annex S
6. Section 1704: Special Inspections
   - 6.1. Fabricators (1704.2): All offsite fabrication of structural members (structural steel, precast concrete, etc.) shall be special inspected as required by the IBC, except work performed by fabricators registered and approved to perform work without special inspection. Approved fabricators shall submit a certificate of compliance to building official at the completion of fabrication.
   - 6.2. Steel (1704.3): Special inspection is required during the fabrication of any load-bearing members and assemblies, unless the fabricator and/or erector demonstrate prior approval by the jurisdiction where fabricated steel will be installed.
     - 6.2.1. Perform all welding and welding special inspection activities in accordance with AWS D1.1, D1.3, D1.4, and D1.8 as appropriate for the material form and welding methods employed. Approved methods and acceptance criteria are established in these codes.
     - 6.2.2. Perform all bolting and bolting inspection in accordance with AISC Specification for Structural Joints Using A325 and A490 Bolts.
     - 6.2.3. Continuous Special Inspection of welding is required for:
       - 6.2.3.1. Complete and partial penetration welds, except flare-bevel groove welds
       - 6.2.3.2. Multi-pass fillet welds
       - 6.2.3.3. Single-pass fillet welds larger than 5/16"
     - 6.2.4. Continuous Special Inspection of pretensioned and slip-critical bolts is required as follows:
       - 6.2.4.1. Verify surface condition of all faying surfaces attached with pretensioned fasteners is in accordance with AISC Specification for Structural Joints Using A325 and A490 Bolts.
       - 6.2.4.2. Witness pretensioned and slip-critical fastener installations to verify the methods are controlled in accordance with the AISC Specification for Structural Joints Using A325 and A490 Bolts.
     - 6.2.5. Periodic Special Inspection of welding is required for (Inspect 25% of welds while welding operations are taking place):
       - 6.2.5.1. Single-pass fillet welds equal to or smaller than 5/16"
       - 6.2.5.2. Floor and roof deck arc spot, puddle welds
       - 6.2.5.3. Welding of stairs and railing systems, cold formed steel studs/joists.
     - 6.2.6. Periodic Special Inspection of all bolts is required as follows:
       - 6.2.6.1. Verify the proper grade of fasteners are installed where indicated in the approved construction drawings.
       - 6.2.6.2. Verify the storage and cleanliness of high strength fasteners meets AISC requirements.
       - 6.2.6.3. Store fasteners in protected storage until released for use. Temperature control is not required. Do not use fastener components showing rust, dirt, or grit. Cleaning or modifying fastener components from the as-delivered condition is not permitted.
       - 6.2.6.4. Verify the faying surfaces have been brought into firm contact, the bolts are in a snug tight condition, and that washers have been used as required.
     - 6.2.7. Periodic Special Inspection of pretensioned and slip-critical bolts is required as follows:
       - 6.2.7.1. Confirm complete fastener assemblies and the wrench systems used are suitable for pretensioned and slip-critical installations.
       - 6.2.7.2. Test fastener combinations and calibrate wrench systems using calibrated tension calibrators, Skidmore-Wilhelm, or equal, in accordance with the AISC Specification for Structural Joints Using A325 or A490 Bolts.
       - 6.2.7.3. Verify high strength fasteners are installed to a snug tight condition either before pretensioning or as a final condition where no other bolting requirements are imposed. Do not intermingle lots verified for pretensioned or slip-critical installations.
       - 6.2.7.4. Witness bolting operations while the contractor performs pretensioning using match-marked, turn-of-the-nut method, or when using DTIs, or twist-off bolts.
     - 6.2.8. Non-Destructive Testing (NDT) of Welds is required as follows:
       - 6.2.8.1. Fabricators will visually inspect all welds for conformance to the approved construction drawings before releasing items for installation.
       - 6.2.8.2. Test all complete joint penetration welds joining primary structural members 5/16" or thicker, by radiographic or ultrasonic testing. Test in accordance with AWS D1.1, Section 6.
       - 6.2.8.3. Ultrasonically test base metal thicker than 1 1/2" for material discontinuities when that material is subjected to through-thickness weld shrinkage strains. (e.g. column flange of the beam-to-column, or column to base plate, complete joint penetration welds)
       - 6.2.8.4. Magnetic Particle Test is required for the following items:
         - 6.2.8.4.1. All temporary attachment or unauthorized weld sites or repairs inside the Protected Zones after finishing and grinding operations
         - 6.2.8.4.2. Any welds made in the k-zone
         - 6.2.8.4.3. 25% of all beam-to-column complete joint penetration welds
         - 6.2.8.4.4. Beam copes and weld access holes made in rolled shapes with flange thickness greater than 1 1/2" or in built-up shapes with webs thicker than 1 1/2"
         - 6.2.8.4.5. Weld tab removal sites.
       - 6.2.8.5. Amount of NDT is permitted to be reduced according to AISC 341, Appendix Q5.2(g) and (h) if appropriate criteria are met and if approved by the building official and engineer of record.
   - 6.3. Concrete (1704.4): Concrete construction shall be special inspected according to Table 1704.4. In the absence of sufficient data or documentation showing conformance to quality standards for materials, testing shall be required to determine material properties under the direction of the building official according to Chapter 3 of ACI 318.
   - 6.4. Soils (1704.7): Existing site soil conditions, fill placement and procedure and load-bearing requirements shall be special inspected to verify compliance with the approved soils report and Table 1704.7. Where total depth of controlled fill is 12" or less, the special inspector shall verify that the in-place dry density of the compacted fill is not less than the 90% of the maximum dry density at optimum moisture content according to ASTM D 1557.
   - 6.5. Sprayed fire-resistant materials (1704.12): Special inspections for sprayed fire-resistant materials applied to structural elements and decks shall be in accordance with Sections 1704.12.1 through 1704.12.6 and based on the fire-resistance design as designated in the architectural drawings.
   - 6.6. Mastic and intumescent fire-resistant coatings (1704.13): Special inspections for mastic and intumescent fire-resistant coatings applied to structural elements and decks shall be in accordance with AWCI 12-B and based on the fire-resistance design as designated in the architectural drawings.
   - 6.7. See architectural drawings for additional inspections pertaining to EIFS (1704.14) or smoke control systems (1704.16).
   - 6.8. Special Cases (1704.15): Special inspect all post-installed anchors per ICC report.
7. Section 1707: Special Inspections for Seismic Resistance
   - 7.1. Structural steel (1707.2): See special inspections for steel above.
   - 7.2. Cold-formed steel framing (1707.4): Periodic special inspection is required during welding operations of elements of the seismic-force-resisting system. Periodic special inspection is required for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including shear walls, braces, diaphragms, collectors and hold-downs.

     Exception: Special inspection is not required for shear walls, braces, diaphragms, collectors and hold-downs where the either the sheathing is gypsum board/ fiberboard, or the sheathing is wood structural panels on only one side of the shear wall/diaphragm and the fastener spacing of the sheathing is more than 4" on center.
   - 7.3. See specific discipline drawings for anchorage of storage racks (1707.5), architectural components (1707.6), mechanical/electrical components (1707.7) and designated seismic system verification (1707.8).
8. Section 1708: Structural Testing for Seismic Resistance
   - 8.1. Structural steel (1708.3): See special inspections for steel above.
   - 8.2. See manufacturer's seismic certification of compliance for non-structural components.
9. Structural Observations for Seismic Resistance: Contractor shall notify the engineer at least 2 days prior to the following stages of construction so the engineer may have the opportunity to review the work. Observation reports shall be sent to architect, contractor and building official.
   - 9.1. Initial placing of any concrete, including but not limited to: footings, slabs on grade or concrete over steel deck
   - 9.2. Initial erection of structural steel
   - 9.3. Completion of structural deck
   - 9.4. Initial finish work

LEGEND OF MARKS AND ABBREVIATIONS

AB	Anchor Bolt	JST	Joist
ABV	Above		
ALT	Alternate	K	Kip(S) = 1000 Pounds
ARCH	Architect	KLF	Kips Per Lineal Foot
		KSF	Kips Per Square Foot
BLDG	Building		
BLK	Blocking	LB	Pounds (#)
BLW	Below	LG	Light Gage
BM	Beam	LOC	Location
BN	Boundary Nail	LVL	Laminated Veneer Lumber
BOTT	Bottom		
BRB	Buckling Restrained Brace	MAS	Masonry
BRDG	Bridging	MAX	Maximum
BRG	Bearing	MECH	Mechanical
BTW	Between	MEZZ	Mezzanine
		MFR	Manufacturer
CGS	Center of Gravity of Strand	MIN	Minimum
CJ	Control Joint	MISC	Miscellaneous
CJP	Complete Joint Penetration	MTL	Metal
CL	Center Line		
CMU	Concrete Masonry Unit	NTS	Not To Scale
COL	Column		
CONC	Concrete	oc	On Center
CONN	Connection	OPNG	Opening
CONT	Continuous	OPP	Opposite
COORD	Coordinate	OSB	Orientated Strand Board
CS	Coil Strap		
CTR	Center	PCF	Pounds per Cubic Foot
		PEN	Penetrate or Penetration
DB	Deck Bearing	PERP	Perpendicular
DBA	Deformed Bar Anchor	PFT	Pre-Fabricated Truss
DBL	Double	PL	Plate
DCW	Demand Critical Weld	PLF	Pounds per Lineal Foot
DET	Detail	PREFAB	Prefabricated
DIA	Diameter	PSF	Pounds per Square Foot
DIM	Dimension	PSI	Pounds per Square Inch
DWG	Drawing	PT	Post Tension
		PT/DF	Pressure Treated Douglas Fir (or appropriate species for region)
(E)	Existing		
EA	Each		
EF	Each Face	REINF	Reinforce
EL	Elevation	REQD	Required
ELEC	Electrical	RTU	Roof Top Unit
EN	Edge Nail		
ENGR	Engineer	SCHED	Schedule
EQ	Equal	SIM	Similar
EQUIP	Equipment	SOG	Slab on Grade
EQ SP	Equally Spaced	STD	Standard
EW	Each Way	STIFF	Stiffener
EJ	Expansion Joint	STL	Steel
EXT	Exterior	STRUCT	Structural
		SW	Shear Wall
FLR	Floor		
FND	Foundation	T&B	Top and Bottom
FTG	Footing	T&G	Tongue and Groove
		TEMP	Temperature
ga	Gage	THRU	Through
GALV	Galvanized	T/	Top of
GLB	Glued Laminated Beam	TYP	Typical
GSN	General Structural Notes		
GT	Girder Truss	UNO	Unless Noted Otherwise
HB	Horizontal Bridging	VERT	Vertical
HD	Hold-down		
HORIZ	Horizontal	W/	With
HSA	Headed Stud Anchor	WWR	Welded Wire Reinforcement
HSS	Hollow Structural Section	WP	Working Point
ICBO	International Conference of Building Officials		
IBC	International Building Code		
ICC	International Code Council		
INT	Interior		

DEFERRED SUBMITTALS

1. Items requiring deferred submittals that are listed below are to be designed and fabricated by the manufacturer according to specifications given in the construction documents.
   - 1.1. Steel Stairs (by steel stair manufacturer. Stair suppliers to provide any additional required support steel beyond that of the main building framing system shown on the design drawings.)
   - 1.2. Prefabricated Modular Cell Units (by supplier)
   - 1.3. Seismic Bracing for mechanical, electrical and plumbing components
2. These deferred submittals shall first be submitted to the project architect and/or engineer for review and coordination. Upon completion of the architect/engineer review, the architect/engineer will submit the deferred submittals to the Building Official for review and approval. The submittal to the Building Official shall include a letter stating that the architect/engineer review has been performed and that the plans and calculations for the deferred submittal items are found to be in general conformance with the design drawings with no exceptions.
3. The final submittal shall be signed and sealed by a Professional Engineer licensed in the state in which construction will occur and shall be available at the jobsite throughout construction.
4. Construction related to deferred submittals shall not commence until the Building Official has approved the submittal.

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PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

GENERAL STRUCTURAL NOTES

S-102

03/19/2012
Construction Documents

NOTE:
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 02.03.2012

DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, i.e. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

PROFESSIONAL STRUCTURAL ENGINEER No. 295747 TAIT W. KETCHAM 03/19/2012 STATE OF UTAH

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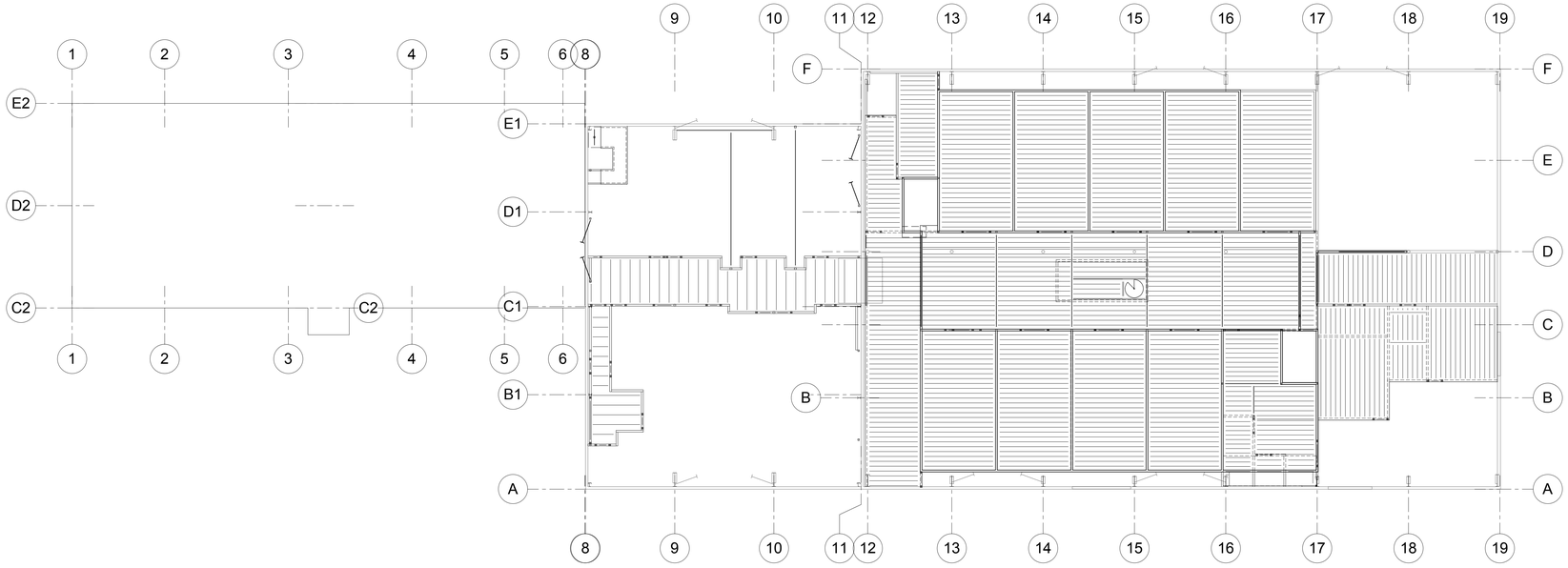
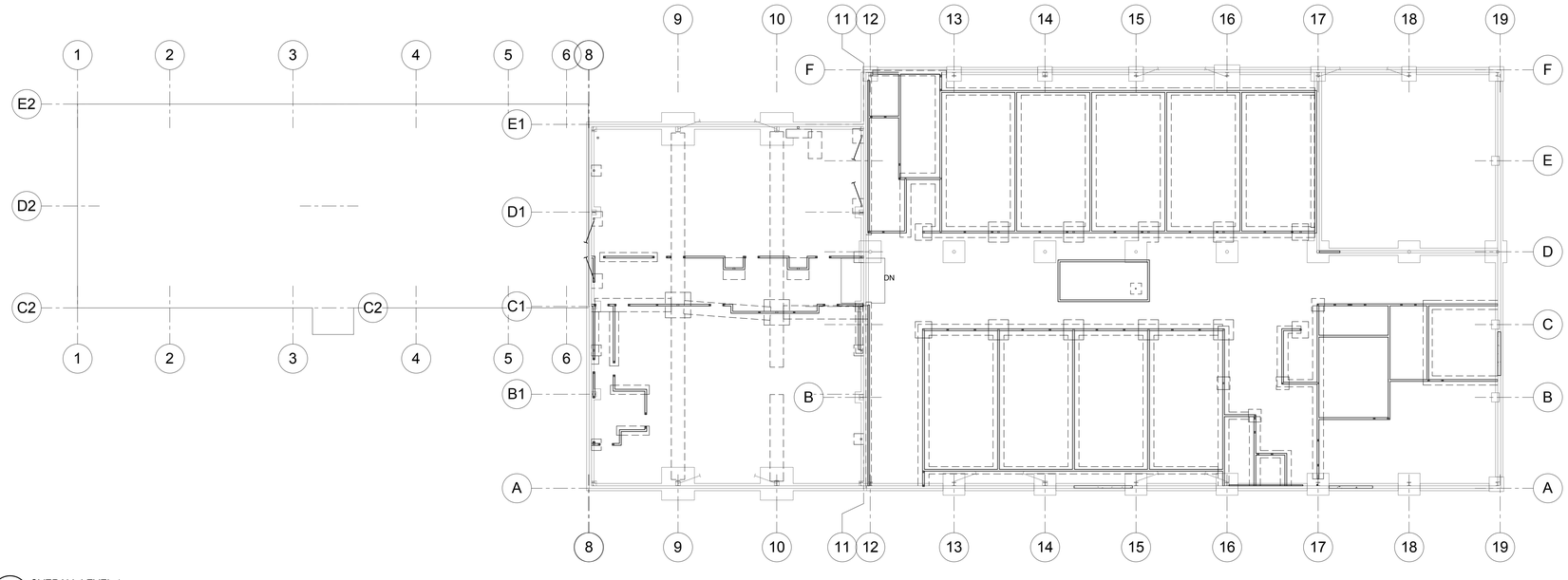


1 OVERALL LEVEL 2
S-111 NO SCALE:



2 OVERALL LEVEL 1
S-111 NO SCALE:

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PAROLE VIOLATOR CENTER

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Division of Facilities Construction and Management

DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
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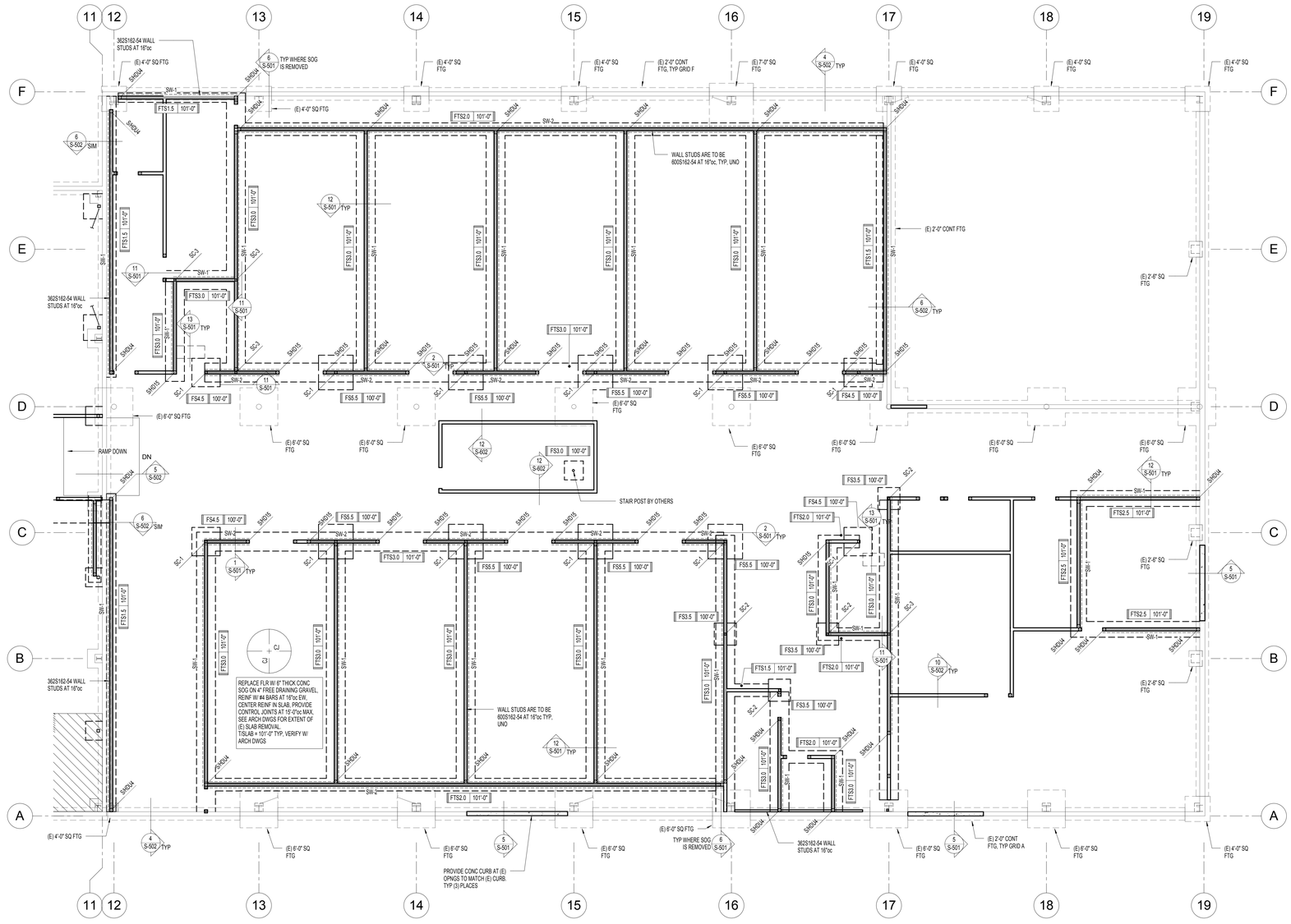
ISSUED DATE:	03/19/2012

OVERALL PLANS - LEVEL 1 AND LEVEL 2

S-111



NORTH

1 S-111A FOOTING AND FOUNDATION PLAN AREA "A"
SCALE: 1/8" = 1'-0"

FOOTING AND FOUNDATION PLAN NOTES:

1. THE INFORMATION SHOWN IS TO BE FIELD VERIFIED. IT SHOULD BE ANTICIPATED THAT ADJUSTMENTS WILL BE NECESSARY.
2. INFORMATION FOR DIMENSION IS CONTAINED IN A SEPARATE SET OF OF ARCHITECTURAL PLANS.
3. THESE DRAWINGS HAVE BEEN PREPARED WITHOUT THE AID OF RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH DEMOLITION OR CONSTRUCTION.
4. THE CONTRACTOR SHALL ALSO NOTIFY THE OWNER IMMEDIATELY IF ANY WORK INDICATED IN THE CONTRACT DOCUMENTS CANNOT BE PREFORMED DUE TO EXISTING FIELD CONDITIONS.
5. VERIFY ALL EXISTING BOLTS ARE SNUG TIGHT. TIGHTEN IF NOT.
6. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
8. CENTER ALL SPOT FOOTINGS UNDER COLUMNS AS SHOWN ON PLAN, TYPICAL UNO.
9. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
10. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR BURIED PIPES RUNNING PARALLEL AND PERPENDICULAR TO FOOTINGS.
11. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR TYPICAL CONSTRUCTION AND CONTROL JOINTS IN FLOOR SLABS.
12. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR LOCATIONS WHERE CONTROL JOINTS ARE DISCONTINUOUS.
13. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR FILL BENEATH FOOTINGS.

MARKS AND SYMBOL LEGEND

	SECTION MARK SHEET NUMBER
	FRAME EL MARK FRAME
	EL ON (S401)
FTG EL	FTG DESIGNATION TOF EL, SEE DET ON (S501)
	DEPRESSED FND WALL, POUR SLAB OVER, SEE FTG AND FND DETS ON (S501)
S S	FTG STEP, SEE FTG AND FND DETS ON (S501)
	FLR OFFSET, SEE FTG AND FND DETS ON (S501)
	DEPRESSED SLAB, SEE ARCH PLANS FOR EXACT LOCATION AND EL
	CONC WALL, SEE SCHED
or	STL COL, SEE SCHED ON (S301)
	STL STUD POST
SC-x	STL COL, SEE SCHED ON (S301)
FC-x	CONT FTG, SEE SCHED ON (S301)
FS-x	SPOT FTG, SEE SCHED ON (S301)
FTS-x	THICKENED SLAB FTG, SEE SCHED ON (S301)
CJ	CONTROL JOINT, SEE FTG AND FND DETS ON (S502)
FD	FLR DRAIN, SEE ARCH FOR EXACT LOCATION
SW-x	STL STUD SHEARWALL, SEE SCHED ON (S-301)
SHDU-x	HOLDOWN, SEE (1/S501)
BFC	BRACED FRAME COL, SEE ELEV ON (S-402)

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No. 295747 TAIT K. KETCHAM 03/19/2012 STATE OF UTAH

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OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

FLOOR PLAN - LEVEL 1 AREA "A"

S-111A

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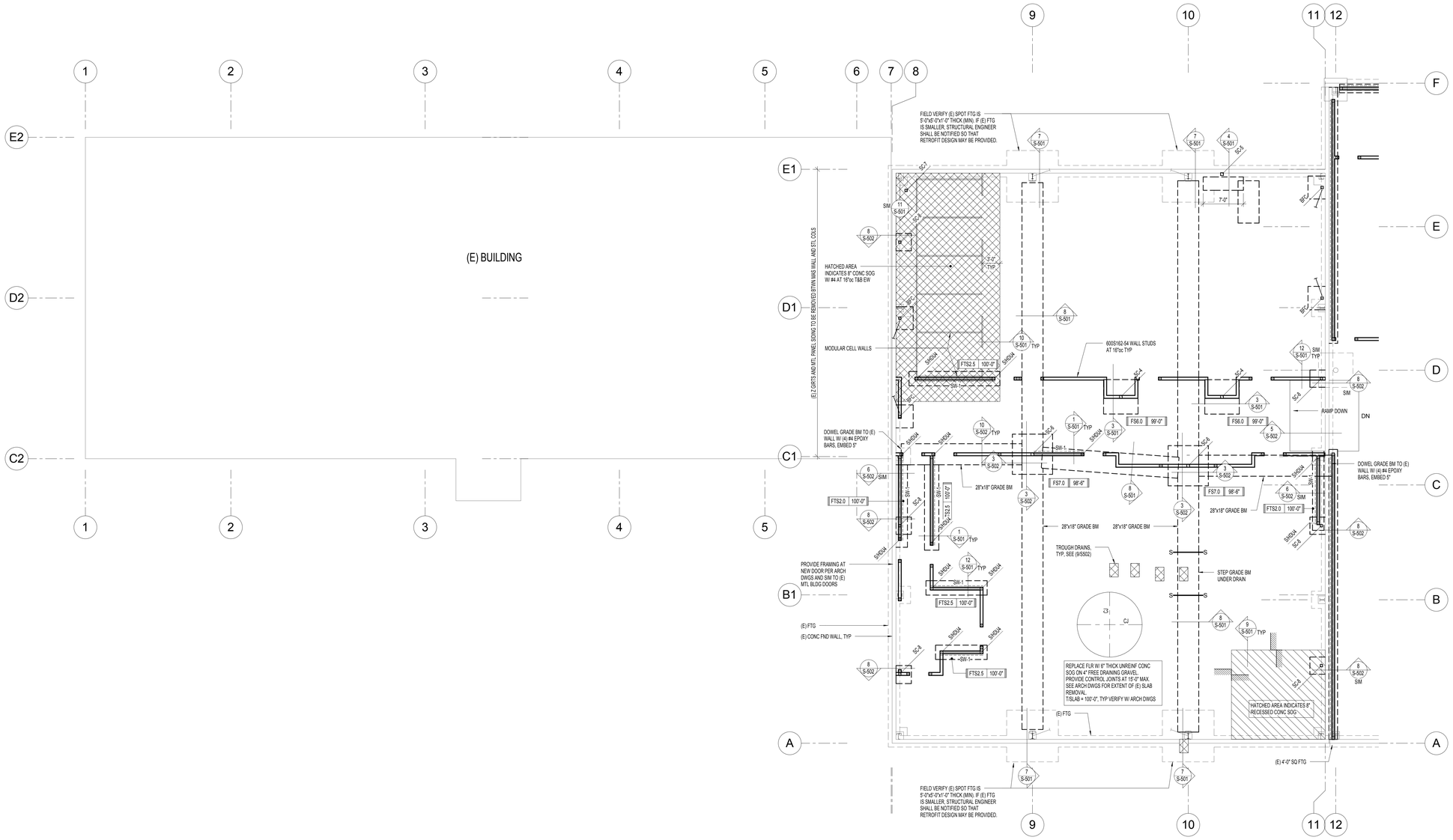

NORTH

1 / S-111B FOOTING AND FOUNDATION PLAN AREA "B"
SCALE: 1/8" = 1'-0"

FOOTING AND FOUNDATION PLAN NOTES:

1. THE INFORMATION SHOWN IS TO BE FIELD VERIFIED. IT SHOULD BE ANTICIPATED THAT ADJUSTMENTS WILL BE NECESSARY.
2. INFORMATION FOR DIMENSION IS CONTAINED IN A SEPARATE SET OF OF ARCHITECTURAL PLANS.
3. THESE DRAWINGS HAVE BEEN PREPARED WITHOUT THE AID OF RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH DEMOLITION OR CONSTRUCTION.
4. THE CONTRACTOR SHALL ALSO NOTIFY THE OWNER IMMEDIATELY IF ANY WORK INDICATED IN THE CONTRACT DOCUMENTS CANNOT BE PREFORMED DUE TO EXISTING FIELD CONDITIONS.
5. VERIFY ALL EXISTING BOLTS ARE SNUG TIGHT. TIGHTEN IF NOT.
6. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
8. CENTER ALL SPOT FOOTINGS UNDER COLUMNS AS SHOWN ON PLAN, TYPICAL UNO.
9. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
10. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR BURIED PIPES RUNNING PARALLEL AND PERPENDICULAR TO FOOTINGS.
11. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR TYPICAL CONSTRUCTION AND CONTROL JOINTS IN FLOOR SLABS.
12. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR LOCATIONS WHERE CONTROL JOINTS ARE DISCONTINUOUS.
13. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR FILL BENEATH FOOTINGS.

MARKS AND SYMBOL LEGEND

	SECTION MARK / SHEET NUMBER
	FRAME EL MARK FRAME
	EL ON (S401)
FTG EL	FTG DESIGNATION / TOF EL, SEE DET ON (S501)
	DEPRESSED FND WALL, POUR SLAB OVER, SEE FTG AND FND DETS ON (S501)
S S	FTG STEP, SEE FTG AND FND DETS ON (S501)
	FLR OFFSET, SEE FTG AND FND DETS ON (S501)
	DEPRESSED SLAB, SEE ARCH PLANS FOR EXACT LOCATION AND EL
	CONC WALL, SEE SCHED
0'	STL COL, SEE SCHED ON (S301)
	STL STUD POST
SC-x	STL COL, SEE SCHED ON (S301)
FC-x	CONT FTG, SEE SCHED ON (S301)
FS-x	SPOT FTG, SEE SCHED ON (S301)
FTS-x	THICKENED SLAB FTG, SEE SCHED ON (S301)
CJ	CONTROL JOINT, SEE FTG AND FND DETS ON (S502)
FD	FLR DRAIN, SEE ARCH FOR EXACT LOCATION
SW-x	STL STUD SHEARWALL, SEE SCHED ON (S-301)
SHDU-x	HOLDOWN, SEE (1/S501)
BFC	BRACED FRAME COL, SEE ELEV ON (S-402)

PAROLE VIOLATOR CENTER

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Construction Documents

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FLOOR PLAN - LEVEL 1 AREA "B"

S-111B

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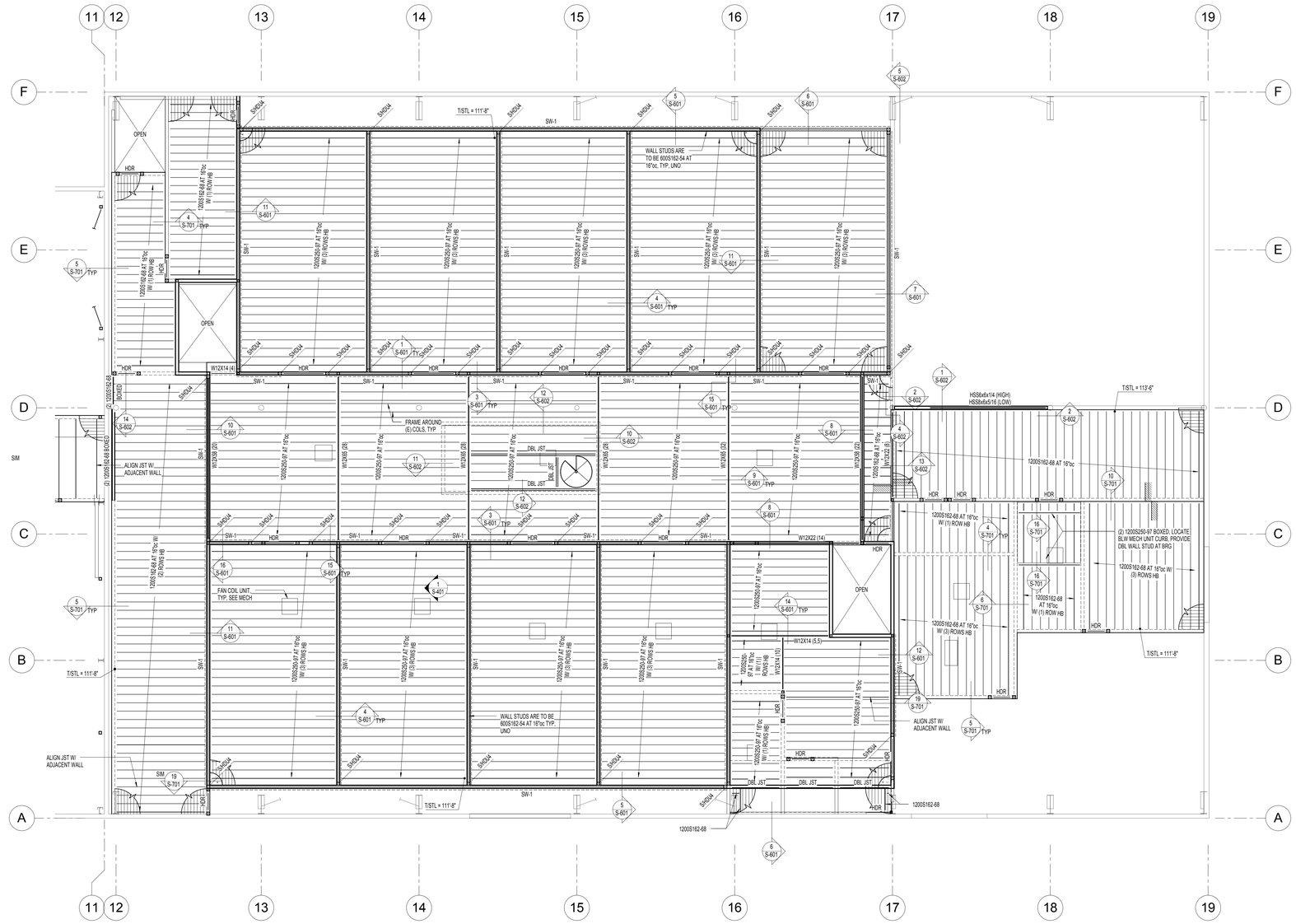

NORTH

1 / S-121A FLOOR FRAMING PLAN AREA "A"
SCALE: 1/8" = 1'-0"

FRAMING PLAN NOTES:

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6. SEE DETAILS ON (S301) FOR TYPICAL TOP AND BOTTOM TRACK SPLICES.
7. SEE DETAILS ON (S502) FOR TYPICAL BUILT-UP SECTIONS.
8. SHEARWALLS SHALL BE SHEATHED PER SHEATHING SCHEDULE.
9. IF HOLDOWN POST AND FULL HEIGHT BEARING POST OCCUR AT THE SAME LOCATION, USE LARGER POSTS SPECIFIED.
10. ALL STEEL STUD BEARING WALLS TO BE SHEATHED WITH STEEL SHEATHING.
11. DOUBLE JOISTS AT FLOOR AND CEILING FRAMING SHALL BE BACK TO BACK UNLESS OTHERWISE NOTED AS "BOXED" SEE DETAILS ON (S701).
12. JOISTS SHALL BE ALIGNED WITH AND BEARING ON WALL STUDS.
13. SEE (S601) FOR TYPICAL JOIST BRIDGING DETAIL.
14. SEE (S601) FOR TYPICAL COMPOSITE BM DETAIL

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- MTL ROOF DECK, SEE GSN ON (S101)
- CONC OVER MTL DECK, SEE GSN ON (S101)
- CONC WALL, SEE SCHED ON (S301)
- LOAD BRG STL STUD WALL, SEE DETS ON (S701) FOR STUD REQD, TYP STUD SIZE IS 6"
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- NON-BRG ARCH WALL BLW
- STL COL, SEE SCHED ON (S301)
- STL STUD POST, SEE (S301) FOR TYP BRG POSTS AND JAMB STUDS AT WALL HDRS
- SW-x — STL STUD SW, SEE SCHED ON (S301)
- HDR — STL STUD HDR, SEE DETS ON (S301)
- HB — HORIZ JST BRIDGING, SEE (18/S601)
- JST TOP CHORD TIE, SEE ROOF FRAMING DETS ON (S701)

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FLOOR FRAMING PLAN - LEVEL 2 AREA "A"

S-121A

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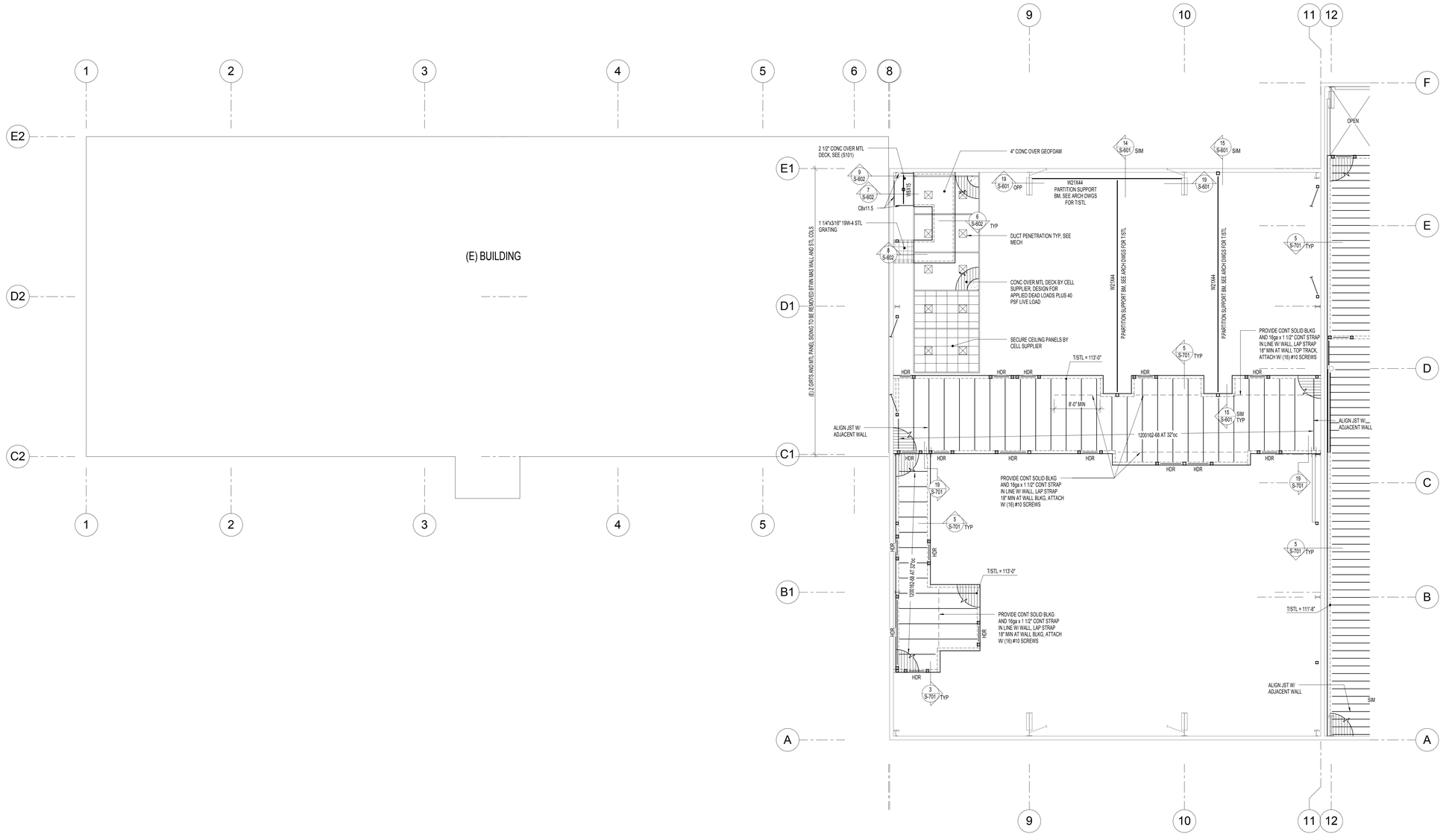

NORTH

1 S-121B FLOOR FRAMING PLAN AREA "B"
SCALE: 1/8" = 1'-0"

FRAMING PLAN NOTES:

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MARKS AND SYMBOLS LEGEND

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- CONC WALL, SEE SCHED ON (S301)
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- HB — HORIZ JST BRIDGING, SEE (18/S601)
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DSGN BY:/CHKD BY:	TK
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FLOOR FRAMING PLAN - LEVEL 2 AREA "B"

S-121B

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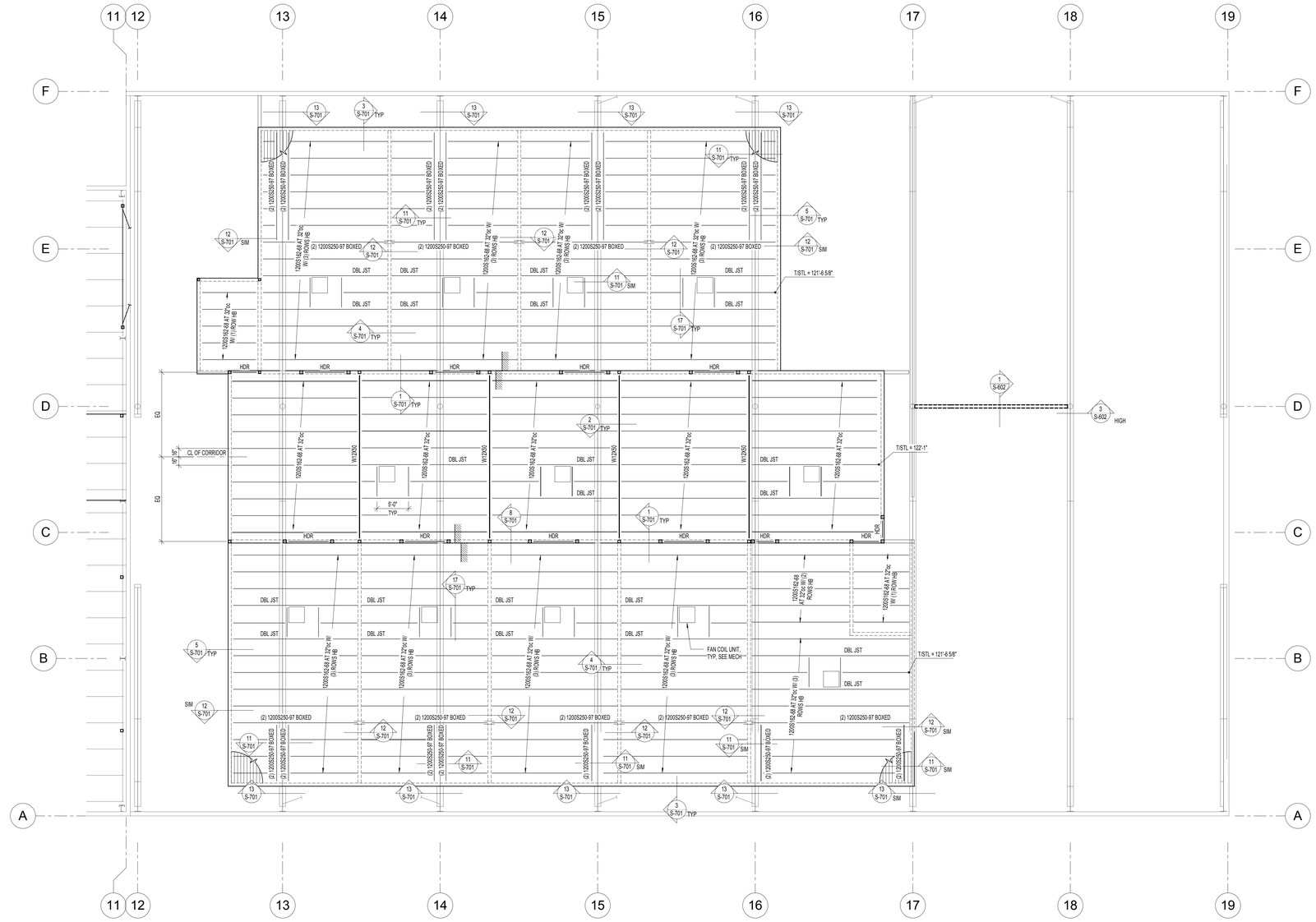

NORTH

1 S-131A CEILING FRAMING PLAN
SCALE: 1/8" = 1'-0"

FRAMING PLAN NOTES:

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12. JOISTS SHALL BE ALIGNED WITH AND BEARING ON WALL STUDS.
13. SEE (S601) FOR TYPICAL JOIST BRIDGING DETAIL.

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- MTL ROOF DECK, SEE GSN ON (S101)
- LOAD BRG STL STUD WALL, SEE DETS ON (S701) FOR STUD REQD, TYP STUD SIZE IS 6"
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- STL STUD POST, SEE (S301) FOR TYP BRG POSTS AND JAMB STUDS AT WALL HDRS
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CEILING FRAMING PLAN

S-131A

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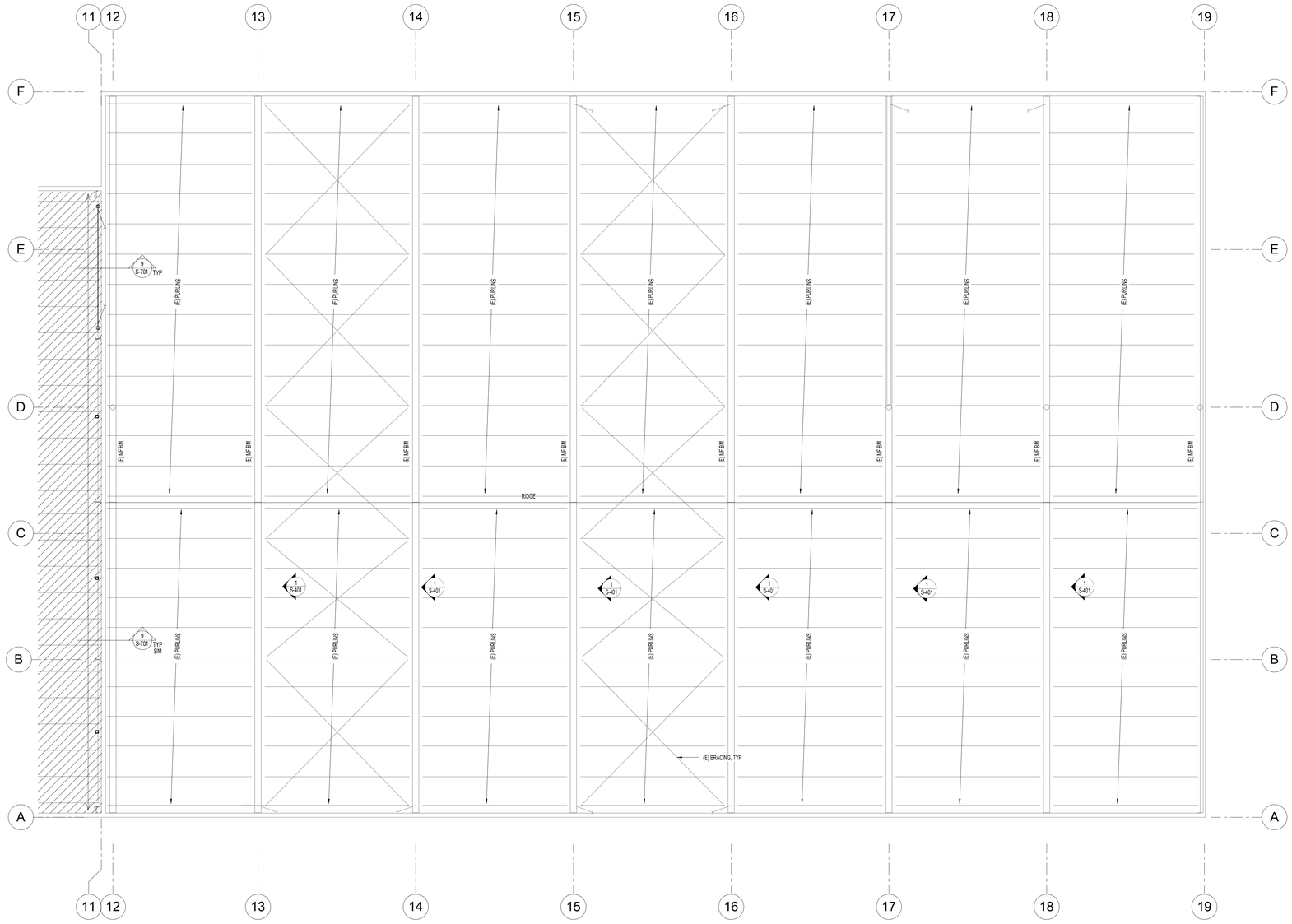

NORTH

1 / S-141A EXISTING ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

FRAMING PLAN NOTES:

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MARKS AND SYMBOLS LEGEND

	SECTION MARK SHEET NUMBER
	MTL ROOF DECK, SEE GSN ON (S101)
	LOAD BRG STL STUD WALL, SEE DETS ON (S701) FOR STUD REQD. TYP STUD SIZE IS 6"
	SW LOCATION. DASHED LINE INDICATES SIDE OF SHEATHING. ALL WALLS ARE SW, UNO, SEE SCHED ON (S301)
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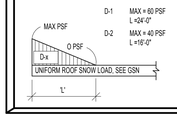
SW-x	STL STUD SW, SEE SCHED ON (S301)
HDR	STL STUD HDR, SEE DETS ON (S301)

SNOW DRIFT LOADING DIAGRAM



D-1	MAX = 60 PSF L = 9'-6"
D-2	MAX = 40 PSF L = 16'-0"

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EXISTING ROOF FRAMING
PLAN - AREA "A"

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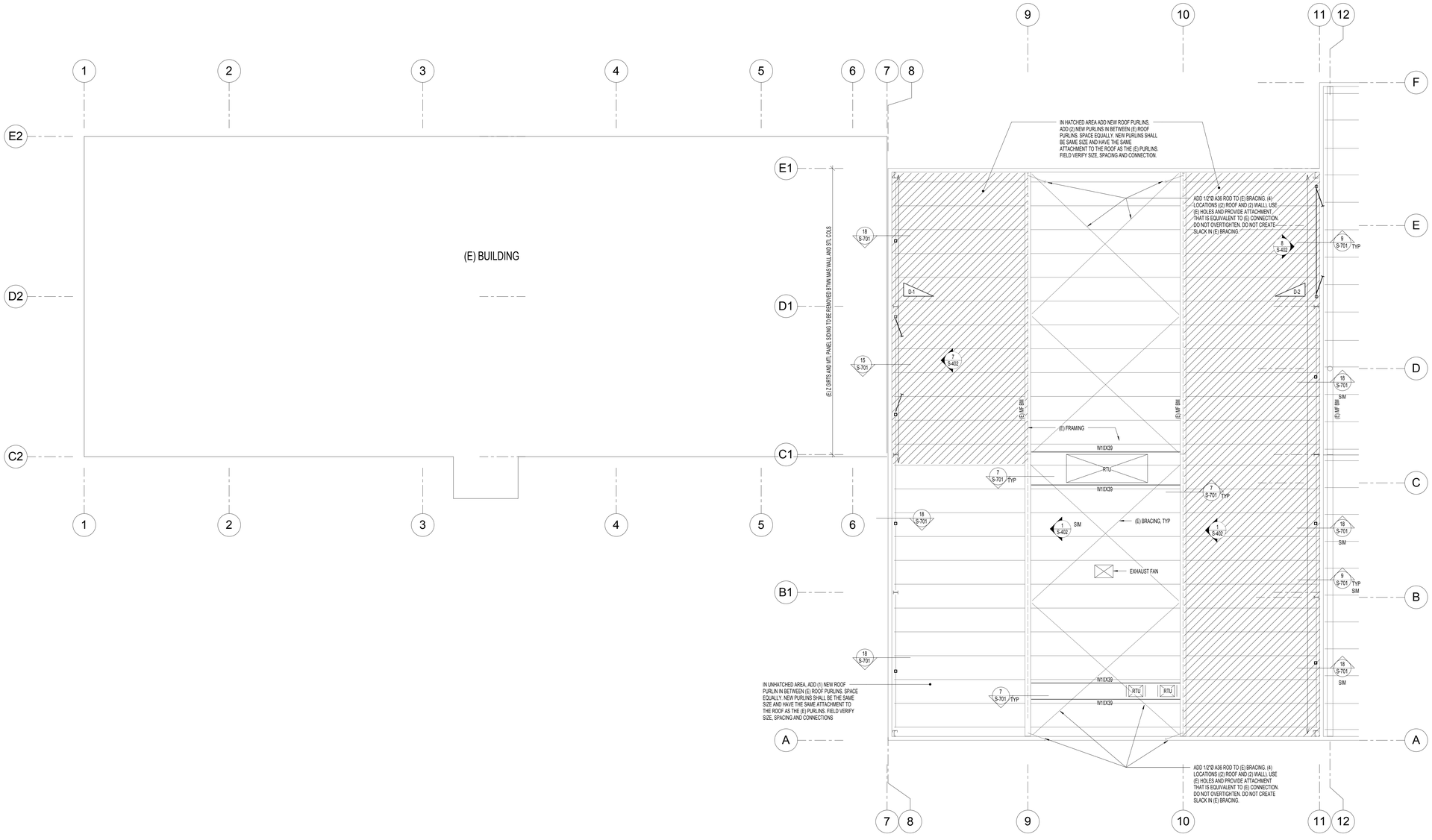

NORTH

1 S-141B ROOF FRAMING PLAN
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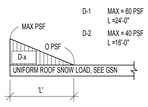
2. INFORMATION FOR DIMENSION IS CONTAINED IN A SEPARATE SET OF OF ARCHITECTURAL PLANS.
3. THESE DRAWINGS HAVE BEEN PREPARED WITHOUT THE AID OF RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH DEMOLITION OR CONSTRUCTION.
4. THE CONTRACTOR SHALL ALSO NOTIFY THE OWNER IMMEDIATELY IF ANY WORK INDICATED IN THE CONTRACT DOCUMENTS CANNOT BE PREFORMED DUE TO EXISTING FIELDCONDITIONS.
5. VERIFY ALL EXISTING BOLTS ARE SNUG TIGHT. TIGHTEN IF NOT.
6. CEILING JOIST LAYOUT TO BE COORDINATED WITH ELECTRICAL AND MECHANICAL DRAWINGS.
7. SEE DETAILS ON (S301) FOR TYPICAL TOP AND BOTTOM TRACK SPLICES.
8. SEE DETAILS ON (S701) FOR TYPICAL BUILT-UP SECTIONS.
9. SHEARWALLS SHALL BE SHEATHED PER SHEATHING SCHEDULE.
10. IF HOLDOWN POST AND FULL HEIGHT BEARING POST OCCUR AT THESAME LOCATION, USE LARGER POSTS SPECIFIED.

MARKS AND SYMBOLS LEGEND

	SECTION MARK SHEET NUMBER
	MTL ROOF DECK, SEE GSN ON (S101)
	LOAD BRG STL STUD WALL, SEE DETS ON (S701) FOR STUD REQD, TYP STUD SIZE IS 6"
	SW LOCATION, DASHED LINE INDICATES SIDE OF SHEATHING. ALL WALLS ARE SW, UNO, SEE SCHED ON (S301)
	BRG WALL BLW
	STL COL, SEE SCHED ON (S301)
	STL STUD POST, SEE (S301) FOR TYP BRG POSTS AND JAMB STUDS AT WALL HDRS
SW-x	STL STUD SW, SEE SCHED ON (S301)
HDR	STL STUD HDR, SEE DETS ON (S301)

SNOW DRIFT LOADING DIAGRAM



D-1 MAX = 80 PSF L =24'-0"
D-2 MAX = 40 PSF L =16'-0"

03/19/2012
Construction Documents

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PROFESSIONAL STRUCTURAL ENGINEER No. 295747 TAIT K. KETCHAM 03/19/2012 STATE OF UTAH

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PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

EXISTING ROOF FRAMING PLAN - AREA "B"

S-141B

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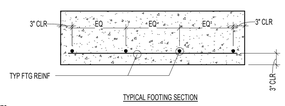
CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				NO	SIZE	LENGTH	SPACING	NO	SIZE	LENGTH	SPACING	
FTS1.5	1'-6"	CONT	12"	—	—	—	—	2	#4	CONT	EQ	
FTS2.0	2'-0"	CONT	12"	—	—	—	—	3	#4	CONT	EQ	
FTS2.5	2'-6"	CONT	12"	—	#5	2'-0"	14"	3	#5	CONT	EQ	
FTS3.0	3'-0"	CONT	16"	—	#5	2'-6"	14"	3	#5	CONT	EQ	
FTS3.5	3'-6"	CONT	16"	—	#5	3'-0"	14"	3	#5	CONT	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	6	#5	3'-0"	EQ	6	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	
FS4.5	4'-6"	4'-6"	12"	5	#5	4'-0"	EQ	5	#5	4'-0"	EQ	
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	
FS5.5	5'-6"	5'-6"	12"	5	#5	5'-0"	EQ	5	#5	5'-0"	EQ	
FS6.0	6'-0"	6'-0"	18"	6	#5	5'-6"	EQ	6	#5	5'-6"	EQ	REINF T&B
FS7.0	7'-0"	7'-0"	16"	8	#5	6'-6"	EQ	8	#5	6'-6"	EQ	REINF T&B

C3000-S2000



TYPICAL FOOTING SECTION

CONCRETE FOOTING NOTES:

1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER, UNLESS NOTED OTHERWISE.
2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH FORMED, FOOTING WIDTH AND LENGTH SHALL BE 6" WIDER AND LONGER THAN SCHEDULED.
4. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.
5. NOT ALL FOOTINGS ARE USED. SEE FOUNDATION PLAN FOR FOOTING MARKS.
6. RUN CONTINUOUS BARS IN 'FC' FOOTING THROUGH INTERSECTED 'FS' FOOTINGS.

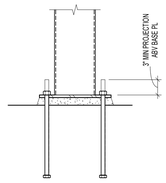
1 S-301 CONCRETE FOOTING SCHEDULE
NO SCALE:

STEEL COLUMN SCHEDULE

MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE THICKNESS	COMMENTS
SC-1	HSS5x5x1/4	3/4" (SBP - 1)	1/4" CLOSURE PL	—
SC-2	HSS4x4x1/4	3/4" (SBP - 1)	1/4" CLOSURE PL	—
SC-3	HSS4x4x1/4	1/2" (SBP - 2)	1/4" CLOSURE PL	—
SC-4	HSS6x6x1/2	SEE (3/S-501)	3/8" CLOSURE PL	—
SC-5	HSS6x6x1/2	SEE (4/S-501)	3/8" CLOSURE PL	—
SC-6	HSS6x6x1/2	SEE (3/S-502)	SEE (2/S-402)	—
SC-7	HSS5x5x1/4	1/2" (SBP - 2)	1/2" (SCP - 1)	—
SC-8	HSS4x4x1/4	3/4" (SBP - 2)	SEE (18/S-701)	—

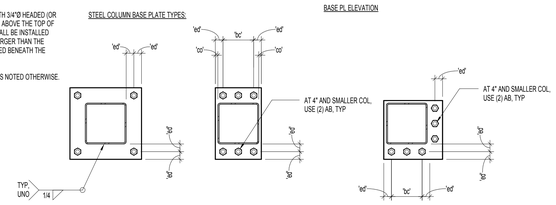
STEEL COLUMN NOTES:

1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH 3/4"Ø HEADED (OR DOUBLE NUT) ANCHOR BOLTS. PROJECT ANCHOR BOLTS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 4" MINIMUM. ALL BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE A PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
2. ANCHOR BOLTS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
3. ALL CAP PLATE BOLTS SHALL BE 3/4"Ø A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.
4. SEE GENERAL STRUCTURAL NOTES FOR OTHER REQUIREMENTS.



BASE PL ELEVATION

STEEL COLUMN BASE PLATE TYPES:



BASE PL SBP-1 BASE PL SBP-2 BASE PL SBP-3

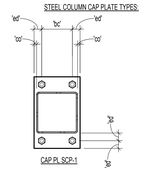
BASE PL LEGEND:

'cc' = 1/2" MINIMUM
'ed' = 1 1/2" MINIMUM
'bc' = 3" MINIMUM

CAP PL LEGEND:

'cc' = 1/2" MINIMUM
'ed' = 1 1/2" MINIMUM
'bc' = BEAM OR GIRDER GAGE
'w' = BEAM OR GIRDER GAGE + 3" OR BEAM OR GIRDER FLANGE WIDTH + 1" OR COLUMN WIDTH + 1" WHICHEVER IS GREATER

STEEL COLUMN CAP PLATE TYPES:



CAP PL SCP-1

2 S-301 STEEL COLUMN SCHEDULE
NO SCALE:

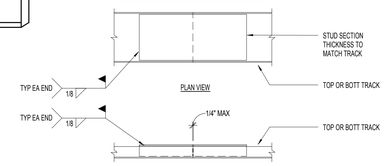
LIGHT GAGE STEEL STUD SHEARWALL SCHEDULE

MARK	LG STEEL SHEET THICKNESS	EDGE SCREWS	FIELD SCREWS	ANCHOR BOLTS TO CONC SOG	ANCHOR BOLTS AT CONC OVER MTL DECK
SW-1	0.027"	#8 AT 2"oc	#8 AT 12"oc	5/8"Ø EXPANSION BOLT AT 48"oc	1/2"Ø THRU BOLT AT 48"oc
SW-2	0.027" EA SIDE	#8 AT 4"oc EA SIDE	#8 AT 12"oc EA SIDE	5/8"Ø EXPANSION BOLT AT 48"oc	N/A

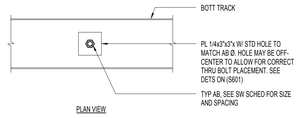
NOTES:

1. PROVIDE (2) 16 GAGE STUDS AT ENDS OF SHEARWALLS.
2. SEE DETAIL (1/S-501) FOR HOLDOWN INSTALLATION.
3. USE 600T150-54 TRACKS AT TOP AND BOTTOM WALL SILLS. U.N.O.
4. PROVIDE WALL BRIDGING AT 48"oc. PER MANUFACTURER'S SPECIFICATIONS.
5. EXPANSION ANCHOR BOLTS SHALL BE HILTI KBTZ OR APPROVED EQUAL. EMBED 4" MIN INTO CONC SOG.
6. ALL PANEL EDGES SHALL BE BLOCKED. SEE GSN.

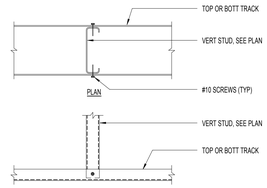
TRACK THICKNESS (MILS)	LENGTH "L"
43	10"
54	12"
68	14"



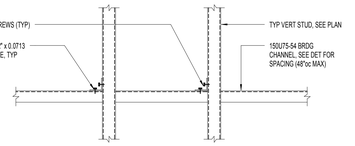
TYPICAL STUD TRACK SPLICE



TYPICAL BOTTOM TRACK AT ATTACHMENT



TYPICAL STUD TO TRACK CONNECTION



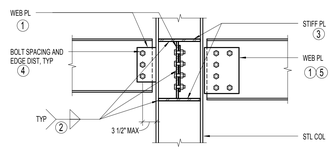
TYPICAL WALL BRIDGING

3 S-301 LIGHT GAGE STEEL STUD SHEARWALL SCHEDULE
NO SCALE:

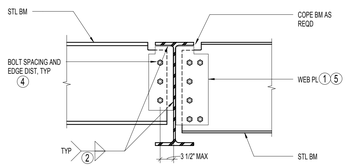
A-325 BOLT SCHEDULE

MAXIUMU BEAM SIZE IN EACH BEAM DEPTH GROUP	A-325N BOLTS	
	No. PER BEAM	SIZE
W8, C8	2	7/8"Ø
W10	2	7/8"Ø
W12	3	7/8"Ø
W14	3	7/8"Ø
W16	4	7/8"Ø
W18	5	7/8"Ø
W21	6	7/8"Ø

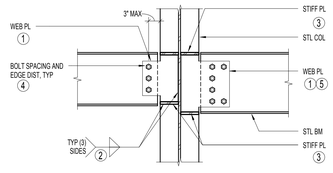
1. BEAM WEB CONNECTION PLATES. THICKNESS EQUALS THE BEAM WEB THICKNESS PLUS 1/8" (1/2" MIN).
2. FILLET WELDS SHALL BE AS FOLLOWS:
   ONE SIDE: PLATE THICKNESS MINUS 1/16" (1/4" MINIMUM)
   TWO SIDES: 1/2" PLATE THICKNESS PLUS 1/16" (1/4" MINIMUM) EACH SIDE.
3. THICKNESS EQUALS BEAM FLANGE THICKNESS OF BEAM FRAMING INTO COLUMN WEB (3/8" MINIMUM).
4. BOLT EDGE DISTANCE SHALL BE 1 1/2" MINIMUM AT ALL EDGES. BOLT SPACING SHALL BE AT 3". BOLT SPACING MAY BE REDUCED TO 3x THE BOLT DIAMETER IF IT IS REQUIRED FOR A SINGLE ROW OF BOLTS. A SINGLE ROW OF BOLTS IS PREFERRED.
5. WHEN MORE THAN ONE COLUMN OF BOLTS IS NEEDED, THE FIRST COLUMN SHALL BE COMPLETE WITH THE REMAINDER OF THE BOLTS PLACED IN THE SECOND COLUMN.
6. CLIP ANGLES: L5x3 1/2. THICKNESS SHALL BE EQUAL TO ONE HALF THE BEAM WEB THICKNESS PLUS 1/16" (1/4" MIN). FOR TWO ROWS OF BOLTS OR SKEWED CONNECTIONS, USE BENT PLATES. WHERE COLUMN WIDTH IS SMALLER THAN THE CONNECTING CLIP ANGLES, ANGLE LEGS MAY BE REDUCED TO MATCH WIDTH OF COLUMN.



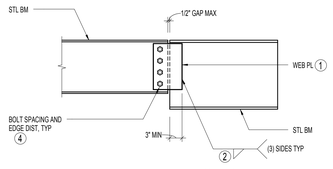
BEAM TO WIDE FLANGE COLUMN WEB PLATE CONNECTION



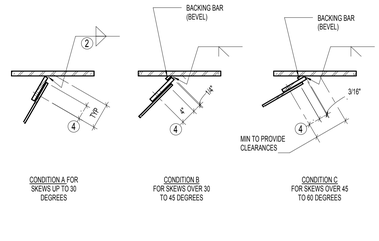
BEAM TO BEAM WEB PLATE CONNECTION



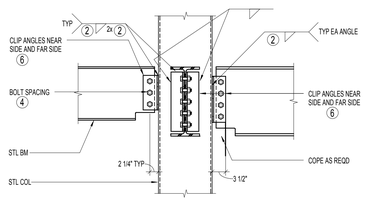
BEAM TO WIDE FLANGE COLUMN WEB PLATE CONNECTION



BEAM TO PARALLEL BEAM WEB PLATE CONNECTION



SHEAR CONNECTOR PLATES AT SKEWED MEMBERS



BEAM TO HSS CLIP ANGLE CONNECTION

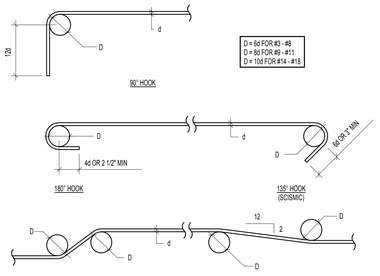
4 S-301 TYPICAL BOLTED WEB PLATE CONNECTIONS WITH BOLT SCHEDULE (SINGLE SHEAR)
NO SCALE:

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE	fc = 3000 PSI				fc = 4000 PSI				fc = 4500 PSI				fc = 5000 PSI			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	25"	14"	18"	18"	23"	13"	17"	17"	22"
#4	22"	29"	29"	38"	19"	25"	25"	33"	18"	24"	24"	31"	17"	23"	23"	29"
#5	28"	36"	36"	47"	24"	31"	31"	41"	23"	30"	30"	38"	22"	28"	28"	36"
#6	33"	43"	43"	56"	29"	37"	37"	49"	27"	35"	35"	46"	26"	34"	34"	49"
#7	48"	63"	63"	81"	42"	54"	54"	71"	40"	51"	51"	67"	38"	49"	49"	63"
#8	55"	72"	72"	93"	48"	62"	62"	81"	45"	59"	59"	76"	43"	56"	56"	72"
#9	62"	81"	81"	105"	54"	70"	70"	91"	51"	66"	66"	86"	48"	63"	63"	81"
#10	70"	91"	91"	118"	61"	79"	79"	102"	57"	74"	74"	96"	54"	71"	71"	92"
#11	78"	101"	101"	131"	67"	87"	87"	114"	64"	82"	82"	107"	60"	78"	78"	102"

CONCRETE REINFORCING BAR LAP SPLICE NOTES:

1. THIS SCHEDULE SHALL BE USED FOR ALL SPLICES, UNLESS NOTED OTHERWISE.
2. HORIZONTAL BARS ARE CLASSIFIED AS TOP BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BARS.
3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS NOTED OTHERWISE.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
5. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
6. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
7. LAP LENGTHS SHALL BE MULTIPLIED BY 1.25 AT SHEARWALL BOUNDARY ELEMENTS AND AT MOMENT FRAME BEAMS TO COLUMNS.
8. DEVELOPMENT LENGTH 'Ld' IS EQUAL TO CLASS 'A' SPLICE.



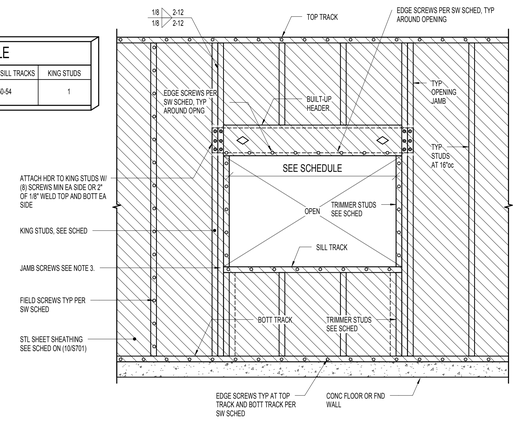
5 S-301 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE / BAR BENDING DIAGRAMS
NO SCALE:

LIGHT GAGE STEEL HEADER SCHEDULE

LOCATION	LENGTH	HEADERS	TRIMMER STUDS	TYPE	HEADER & SILL TRACKS	KING STUDS
INTERIOR BEARING WALLS	LESS THAN 8'-0"	(2) 1000S200-54 BOX	2		600T150-54	1

NOTE:

1. USE #10-16 SELF DRILLING SCREWS. U.N.O.
2. MINIMUM EDGE DISTANCE FOR FASTENERS = 1.5d.
3. USE (2) 600S162-54 + 600T150-54 AT ALL JAMBS. U.N.O.
4. PROVIDE WEB STIFFENERS AT ALL SUPPORTS



6 S-301 STEEL STUD HEADER SCHEDULE
NO SCALE:

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SALT LAKE CITY, UT 84101
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REVISIONS:

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

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Construction Documents

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PROFESSIONAL STRUCTURAL ENGINEER No. 295747 TAIT K. KETCHAM 03/19/2012 STATE OF UTAH

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DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

SCHEDULES

S-301

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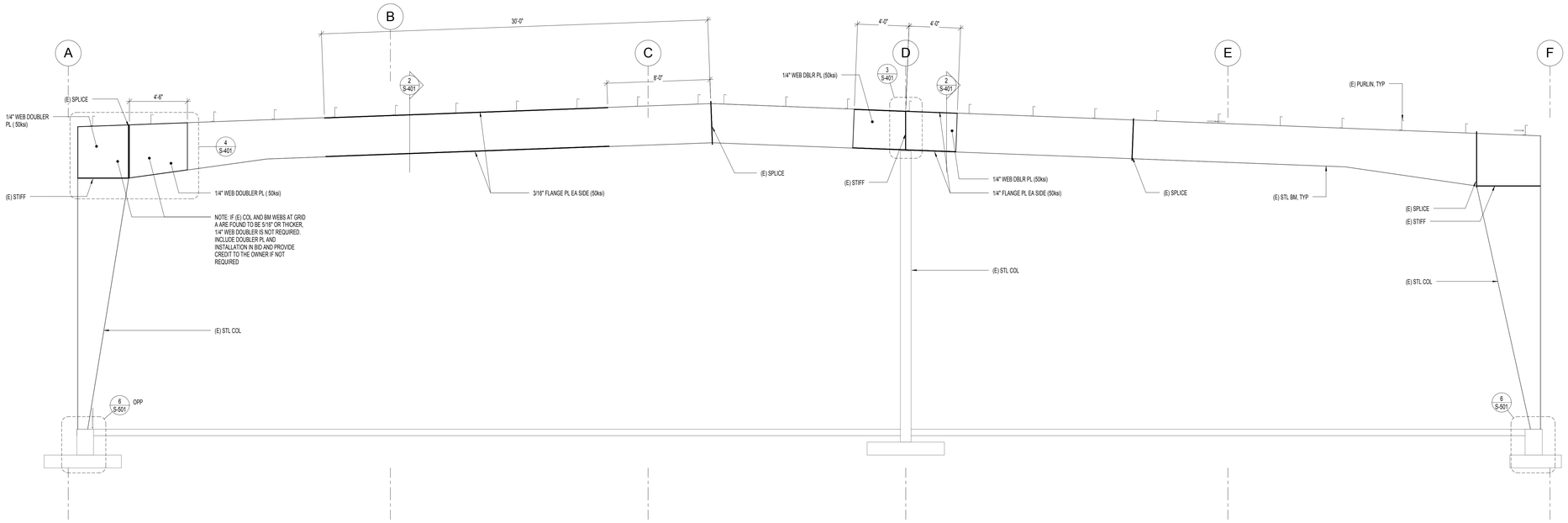
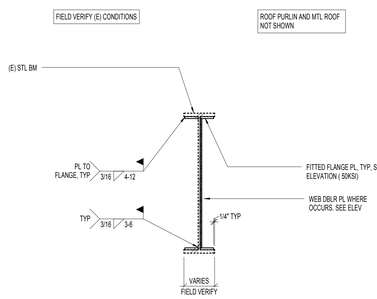


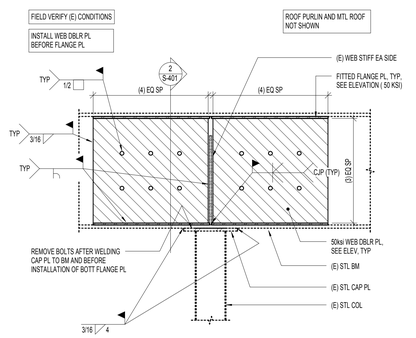
1 / S-401 FRAME ELEVATION AT GRIDS 13, 14, 15, 16, 17 AND 18

SCALE: 1/4" = 1'-0"



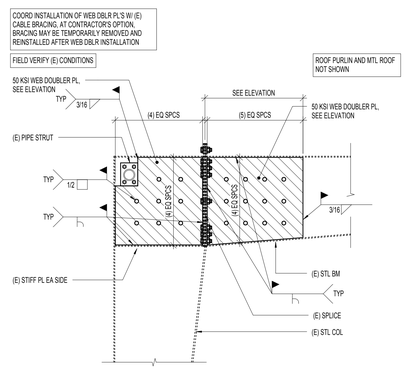
2 / S-401 SCHEMATIC BEAM STRENGTHENING DETAIL

NO SCALE:



3 / S-401 BEAM STRENGTHENING DETAIL AT GRID D

NO SCALE:



4 / S-401 WEB DOUBLER DETAIL AT GRID A COLUMN

NO SCALE:

FRAME ELEVATION NOTES:

1. THE INFORMATION SHOWN IS TO BE FIELD VERIFIED. IT SHOULD BE ANTICIPATED THAT ADJUSTMENTS WILL BE NECESSARY.
2. INFORMATION FOR DIMENSION IS CONTAINED IN A SEPARATE SET OF OF ARCHITECTURAL PLANS.
3. THESE DRAWINGS HAVE BEEN PREPARED WITHOUT THE AID OF RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH DEMOLITION OR CONSTRUCTION.
4. THE CONTRACTOR SHALL ALSO NOTIFY THE OWNER IMMEDIATELY IF ANY WORK INDICATED IN THE CONTRACT DOCUMENTS CANNOT BE PREFORMED DUE TO EXISTING FIELD CONDITIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS
6. COORDINATE WEB DOUBLER PLATE INSTALLATION WITH EXISTING CABLE BRACING. PROVIDE MATCHING HOLES IN DOUBLER PLATES AS REQUIRED.
7. VERIFY ALL EXISTING BOLTS ARE SNUG TIGHT. TIGHTEN IF NOT.

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03/19/2012
Construction Documents

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PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

AREA "A" FRAME ELEVATION AND RETROFIT DETAILS

S-401

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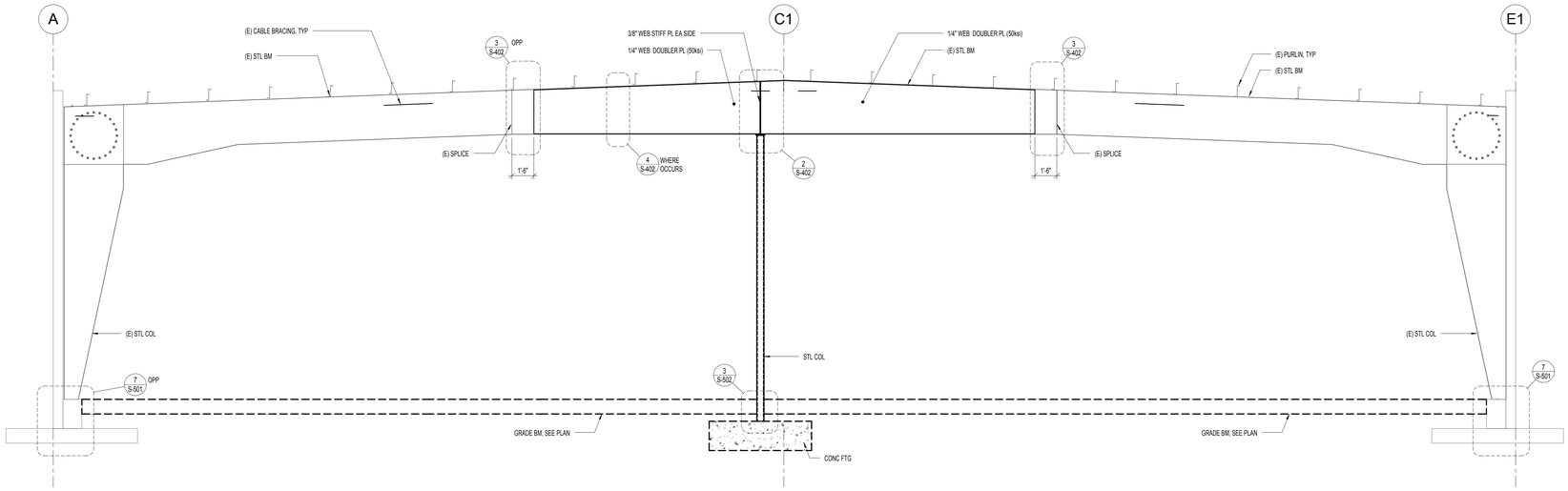

1 S-402 FRAME ELEVATION AT GRID 10 AND SIMILAR AT GRID 9
SCALE: 1/4" = 1'-0"

FRAME ELEVATION NOTES:

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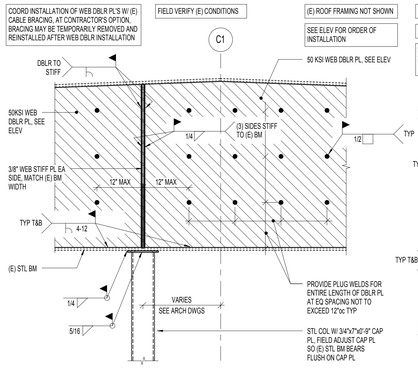
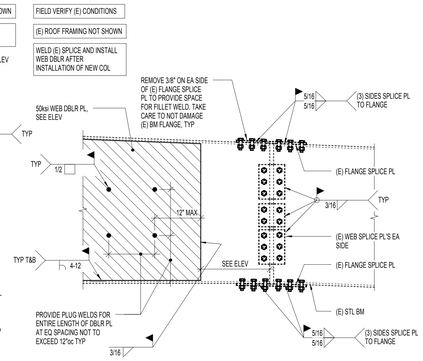
6. COORDINATE WEB DOUBLER PLATE INSTALLATION WITH EXISTING CABLE BRACING. PROVIDE MATCHING HOLES IN DOUBLER PLATES AS REQUIRED.
7. VERIFY ALL EXISTING BOLTS ARE SNUG TIGHT, TIGHTEN IF NOT.

RETROFIT ORDER OF INSTALLATION AREA "B"

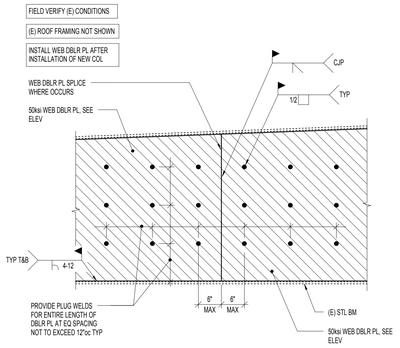
1. INSTALL WEB STIFFENERS PER (2/S402).
2. RAISE EXISTING FRAMES 7/8" (± 1/8") AT GRID C1. WEB STIFFENERS ARE REQUIRED AT JACKING POINTS.
3. INSTALL NEW STEEL COLUMN PER (2/S402).
4. WELD EXISTING SPLICE PLATES PER (3/S402).
5. INSTALL WEB DOUBLER PLATES PER DETAILS.



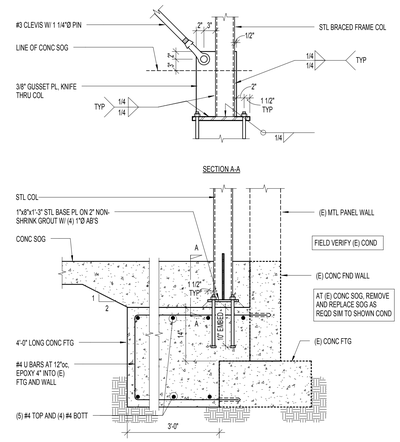
2 S-402 STEEL COLUMN AT EXISTING BEAM
NO SCALE:



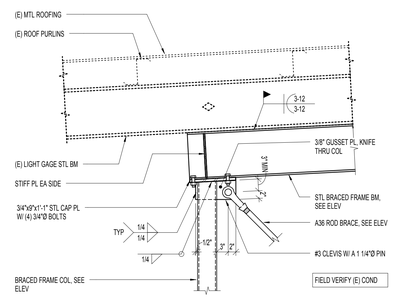
3 S-402 EXISTING FRAME BEAM SPLICE AND NEW WEB DOUBLER PLATE ATTACHMENT
NO SCALE:



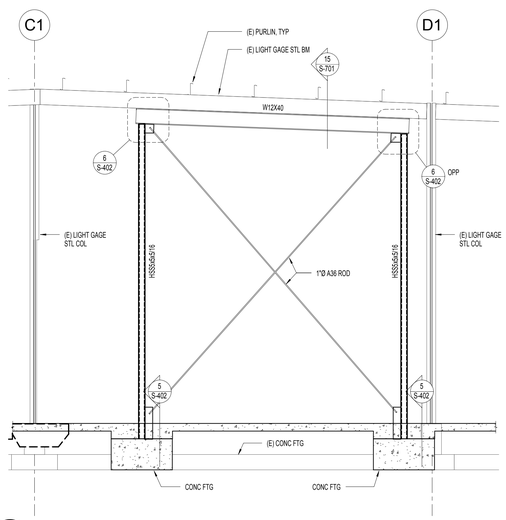
4 S-402 TYPICAL WEB DOUBLER SPLICE DETAIL
NO SCALE:



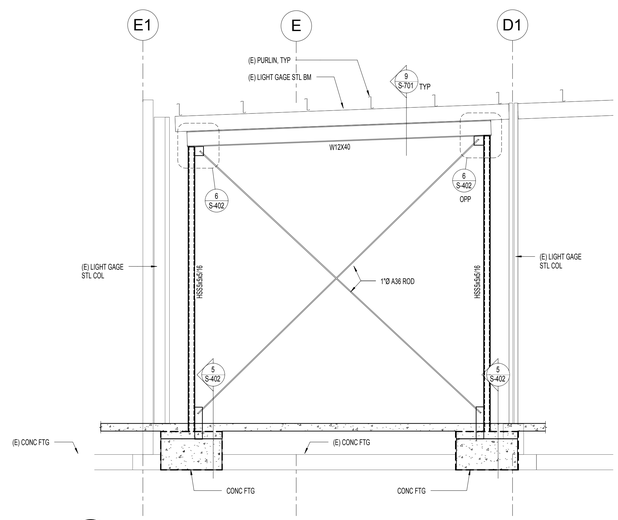
5 S-402 FOOTING AT NEW BRACED FRAME
NO SCALE:



6 S-402 NEW BRACED FRAME CONNECTION DETAIL
NO SCALE:



7 S-402 BRACED FRAME ELEVATION AT GRID 8
SCALE: 1/4" = 1'-0"



8 S-402 BRACED FRAME ELEVATION AT GRID 11
SCALE: 1/4" = 1'-0"

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PAROLE VIOLATOR CENTER

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Division of Facilities Construction and Management

DRAWN BY:	Author
DSGN BY:/CHKD BY:	Checker
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

AREA "B" FRAME ELEVATION AND RETROFIT DETAILS

S-402

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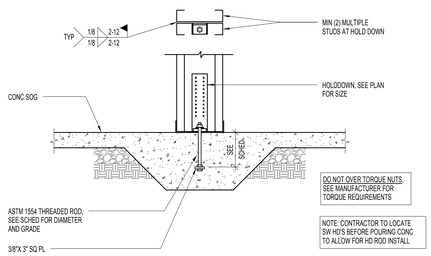
REVISIONS:

'S/HDU' TYPE HOLDOWN SCHEDULE

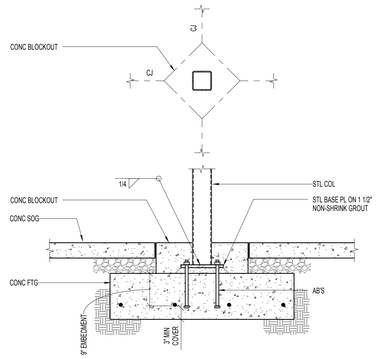
MARK	HOLDOWN POST	NO. OF SCREWS	ANCHOR BOLT DIAMETER	EMBED DEPTH
S/HD15	(2) 600S162-54	(30)#14	1" Ø GR 55	12"
S/HDU4	(2) 600S162-54	(6)#14	5/8" Ø GR 36	8"

HD' TYPE HOLDOWN NOTES:

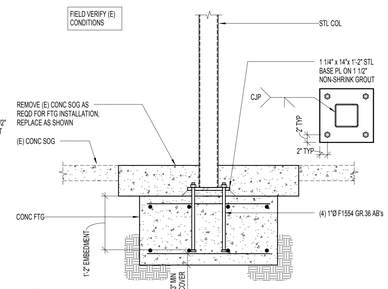
1. ALL HOLDOWNS SPECIFIED ARE "SIMPSON - STRONG TIE". SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS.



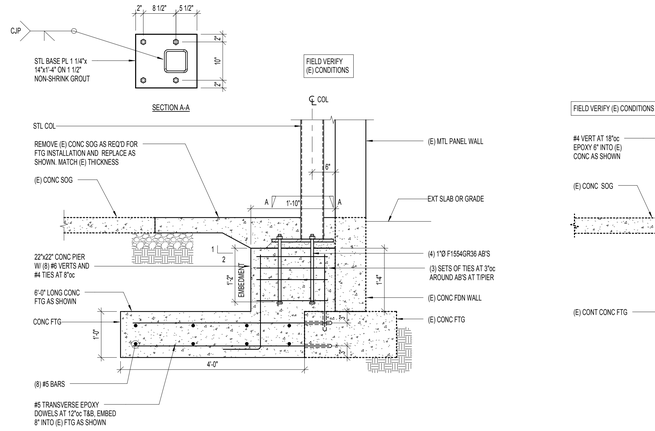
1 S-501 'S/HDU' TYPE HOLDOWN SCHEDULE
NO SCALE:



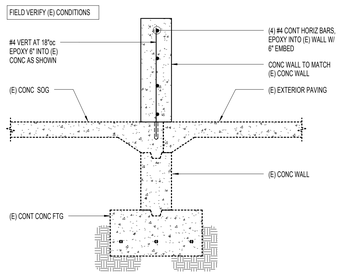
2 S-501 TYPICAL STEEL COLUMN TO CONCRETE FOOTING
NO SCALE:



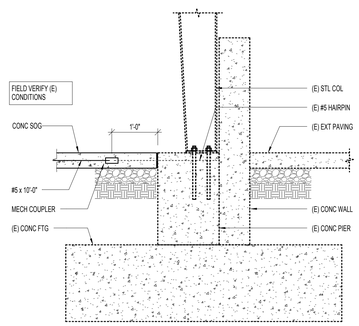
3 S-501 CANTILEVERED COLUMN AT EXISTING SLAB ON GRADE
NO SCALE:

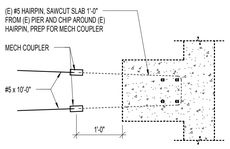


4 S-501 CANTILEVERED STEEL COLUMN AT EXISTING EXTERIOR FOOTING
NO SCALE:

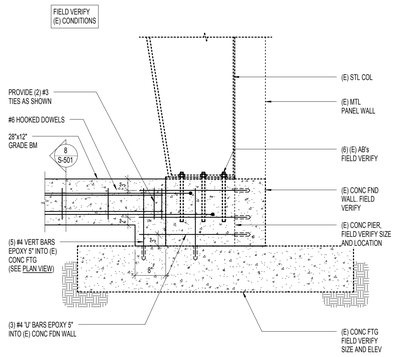


5 S-501 CONCRETE INFILL WALL AT PERIMETER
NO SCALE:

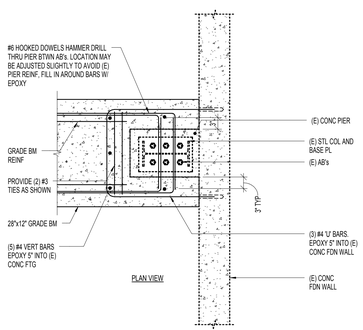




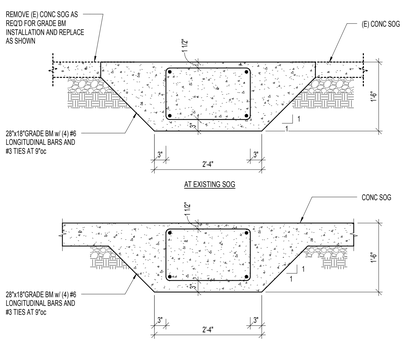
6 S-501 TYPICAL HAIRPIN SPLICE AT EXISTING FRAME COLUMNS - AREA A
NO SCALE:



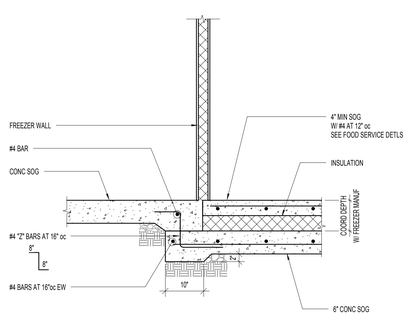
7 S-501 GRADE BEAM AT EXISTING PIER - AREA B
NO SCALE:



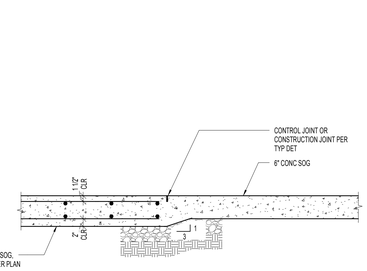
8 S-501 GRADE BEAM DETAIL
NO SCALE:



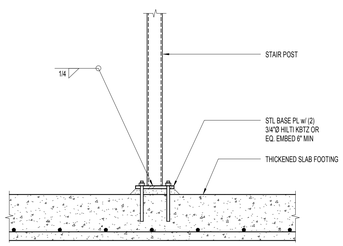
9 S-501 FREEZER FLOOR SLAB
NO SCALE:



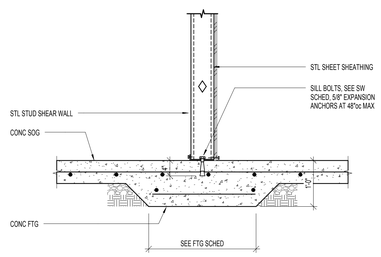
10 S-501 SLAB ON GRADE AT HOLDING CELLS
NO SCALE:



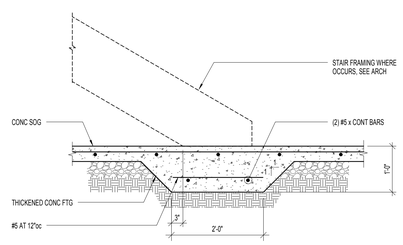
11 S-501 STAIR POST AT THICKENED SLAB
NO SCALE:



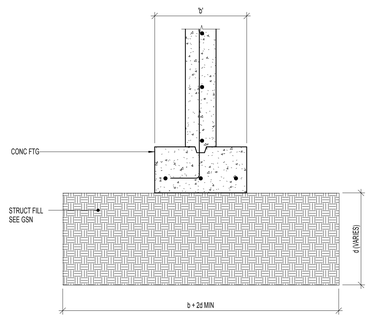
12 S-501 TYPICAL BEARING WALL TO FOOTING
NO SCALE:



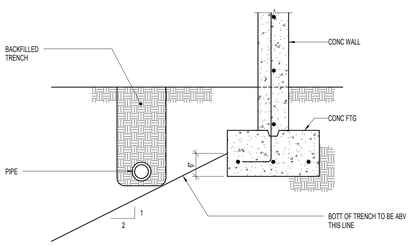
13 S-501 TYPICAL THICKENED SLAB AT BASE OF STAIRS
NO SCALE:



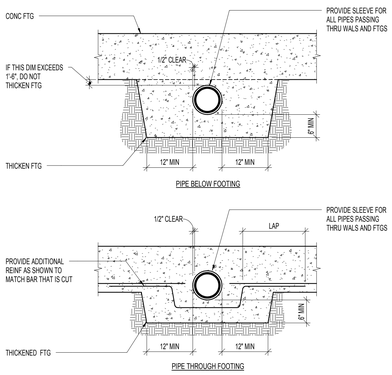
14 S-501 TYPICAL COMPACTED STRUCTURAL FILL
NO SCALE:



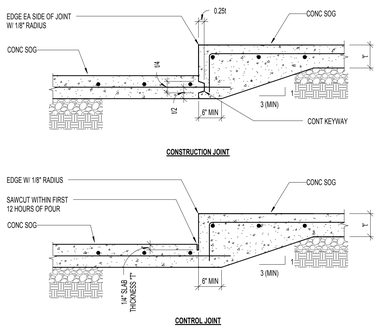
15 S-501 TYPICAL PIPE PARALLEL TO FOOTING
NO SCALE:



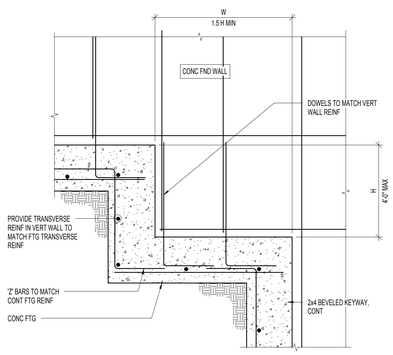
16 S-501 TYPICAL PIPE PERPENDICULAR TO FOOTING
NO SCALE:



17 S-501 TYPICAL SLAB DEPRESSION
NO SCALE:



18 S-501 TYPICAL FOOTING STEP AT CONCRETE FOUNDATION WALL
NO SCALE:



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DSGN BY:/CHKD BY:	TK
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FOOTING AND FOUNDATION DETAILS

S-501

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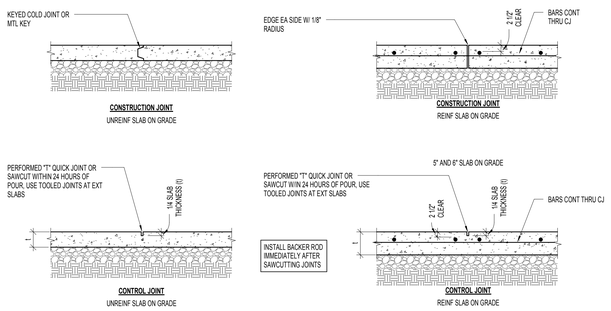
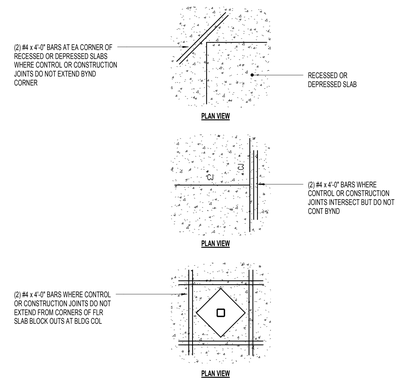
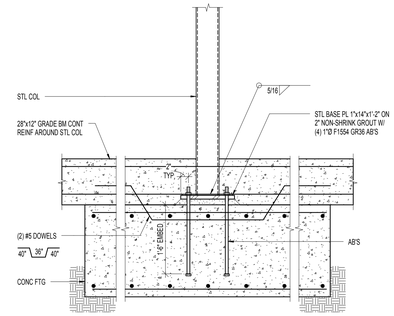


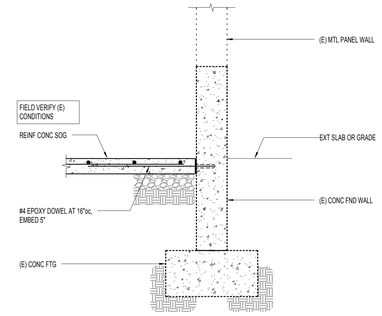
1 S-502 TYPICAL SLAB ON GRADE JOINT
NO SCALE:



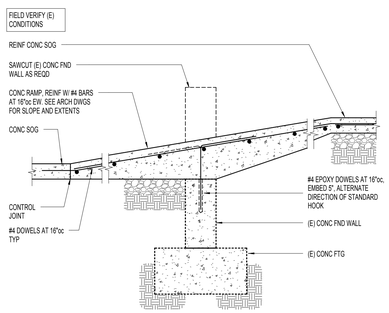
2 S-502 TYPICAL LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING STEEL
NO SCALE:



3 S-502 GRADE BEAM AT CONCRETE FOOTING
NO SCALE:



4 S-502 CONCRETE SLAB ON GRADE AT EXISTING FOUNDATION WALL
NO SCALE:



5 S-502 CONCRETE RAMP DETAIL
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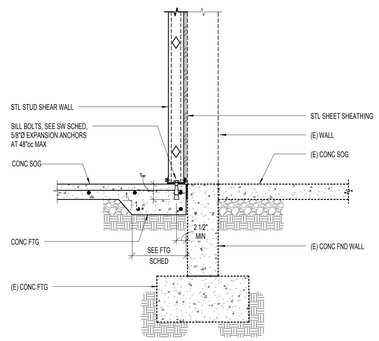
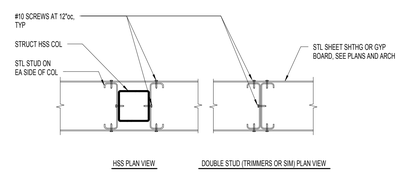
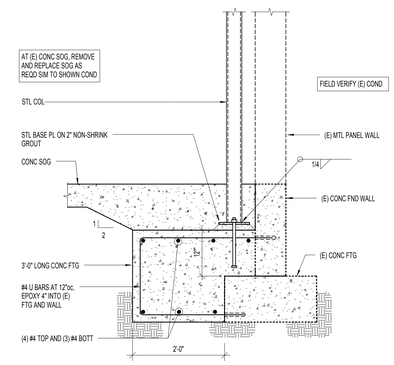


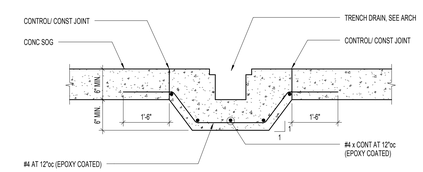
6 S-502 THICKENED SLAB FOOTING DETAIL AT SLAB EDGE
NO SCALE:



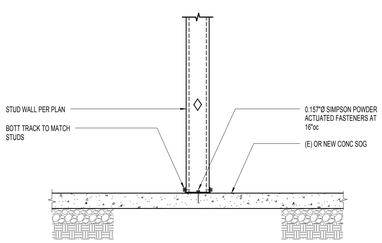
7 S-502 TYPICAL BUILT-UP COLUMNS
NO SCALE:



8 S-502 FOOTING DETAIL AT STEEL COLUMN
NO SCALE:



9 S-502 TYPICAL TRENCH DRAIN
NO SCALE:



10 S-502 TYPICAL METAL STUD WALL CONNECTION TO CONCRETE SLAB ON GRADE AT NON-SHEAR WALL
NO SCALE:

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PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

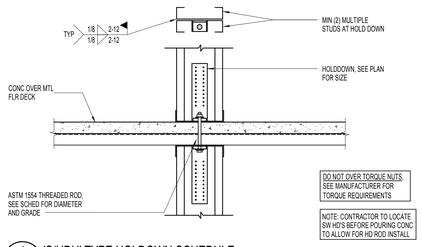
FOOTING AND FOUNDATION DETAILS

S-502

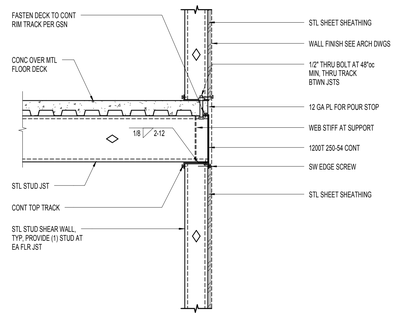
'S/HDU' TYPE HOLDOWN SCHEDULE				
MARK	HOLDOWN POST	NO. OF SCREWS	ANCHOR BOLT DIAMETER	EMBED DEPTH
S/HD15	(2) 6000S162-54	(30)#14	1" Ø GR 55	12"
S/HDU4	(2) 6000S162-54	(6)#14	5/8" Ø GR 36	8"

'HD' TYPE HOLDOWN NOTES:

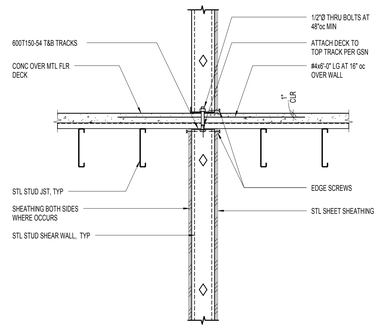
1. ALL HOLDOWNS SPECIFIED ARE "SIMPSON - STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS.



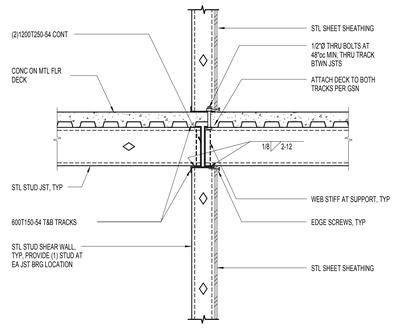
1 S-601 'S/HDU' TYPE HOLDOWN SCHEDULE
NO SCALE:



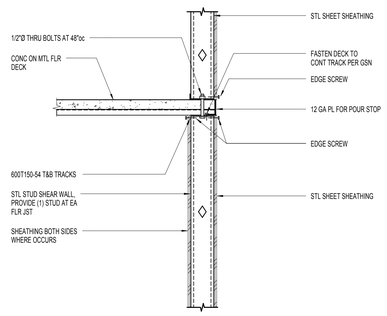
2 S-601 TYPICAL JOIST BEARING AT EXTERIOR WALL
NO SCALE:



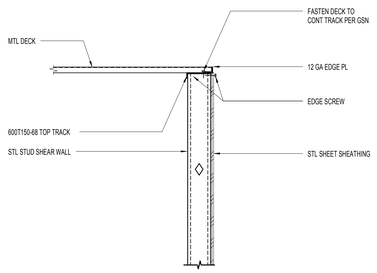
3 S-601 SHEAR WALL CONNECTION
NO SCALE:



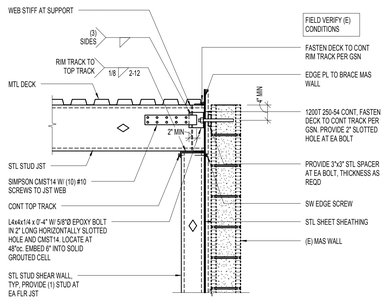
4 S-601 TYPICAL JOIST BEARING AT INTERIOR SHEAR WALL
NO SCALE:



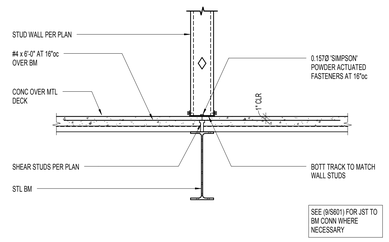
5 S-601 TYPICAL DECK BEARING AT EXTERIOR SHEAR WALL
NO SCALE:



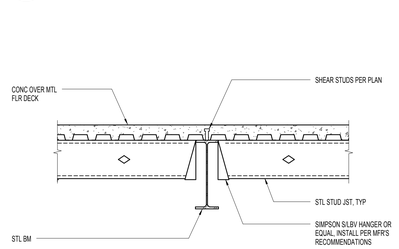
6 S-601 TYPICAL DECK BEARING AT EXTERIOR SHEAR WALL
NO SCALE:



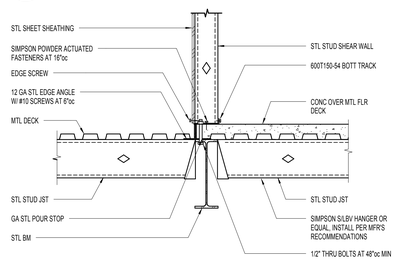
7 S-601 TYPICAL JOIST BEARING AT EXTERIOR WALL
NO SCALE:



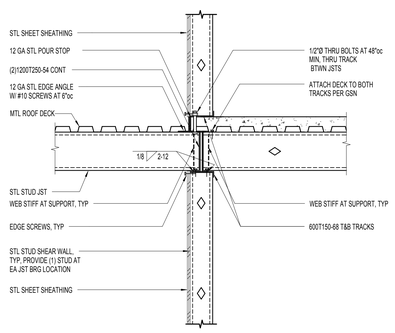
8 S-601 TYPICAL METAL STUD WALL CONNECTION TO CONCRETE ON METAL DECK AT NON SHEAR WALL
NO SCALE:



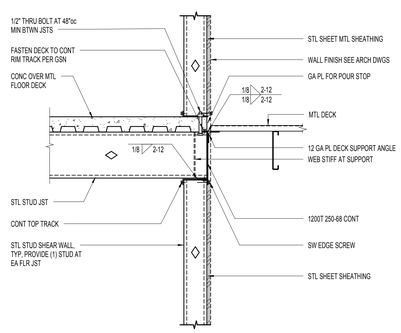
9 S-601 TYPICAL JOIST TO STEEL BEAM CONNECTION
NO SCALE:



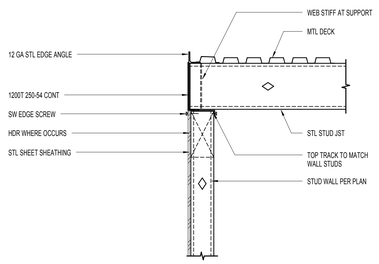
10 S-601 ROOF TO FLOOR DECK AT BEAM
NO SCALE:



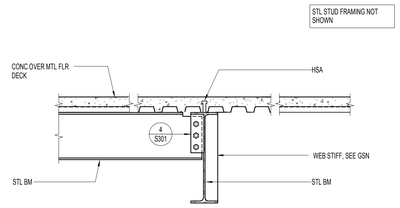
11 S-601 ROOF TO FLOOR DECK AT SHEAR WALL
NO SCALE:



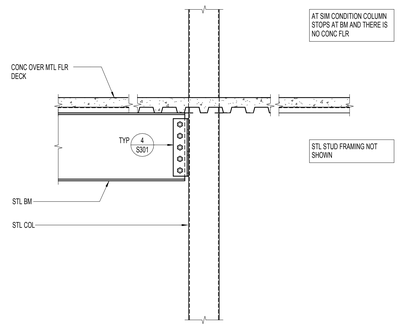
12 S-601 TYPICAL JOIST BEARING AT EXTERIOR WALL
NO SCALE:



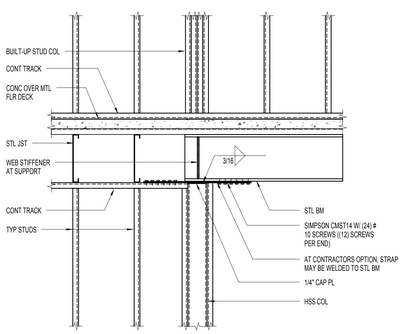
13 S-601 JOIST BEARING AT EXTERIOR WALL
NO SCALE:



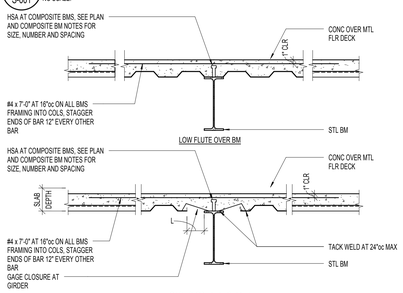
14 S-601 TYPICAL STEEL BEAM TO STEEL BEAM CONNECTION DETAILS
NO SCALE:



15 S-601 TYPICAL STEEL BEAM TO HSS COLUMN DETAIL
NO SCALE:



16 S-601 DRAG CONNECTION
NO SCALE:



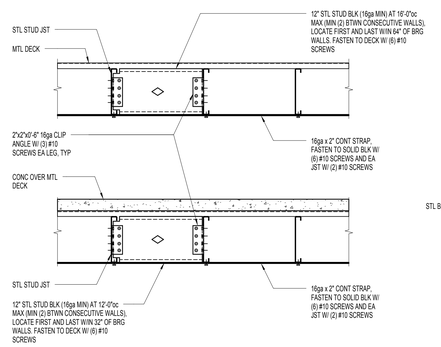
GAGE CLOSURE AT GIRDER

RECOMMENDED GIRDER FILLER THICKNESS

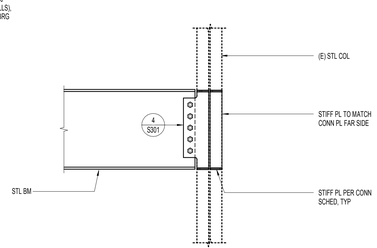
L	METAL GAGE (TYPE)
0" TO 5"	20
5"+ TO 7 1/2"	16
7 1/2"+ TO 9"	14

* NOT TO EXCEED 12". ABOVE GAGES ARE BASED ON FLAT MATERIAL WITH NO STRENGTH INCREASE DUE TO ITS SHAPE.

17 S-601 TYPICAL COMPOSITE BEAM DETAILS
NO SCALE:



18 S-601 TYPICAL JOIST BRIDGING DETAIL
NO SCALE:



19 S-601 STEEL BEAM TO EXISTING STEEL COLUMN
NO SCALE:

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Salt Lake City, Utah

Division of Facilities Construction and Management

03/19/2012
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DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

FLOOR FRAMING DETAILS

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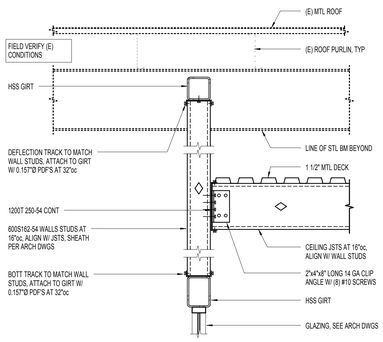
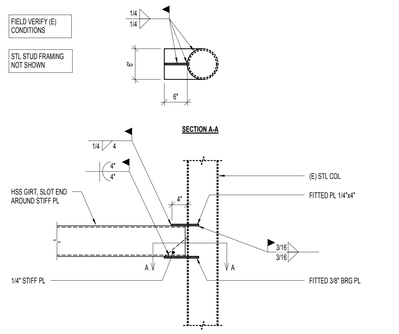
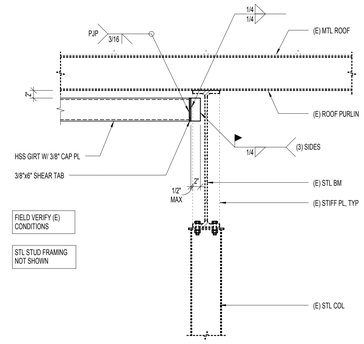


1 S-602 STEEL STUD WALL AT HSS GIRTS
NO SCALE:



2 S-602 HSS GIRTS AT EXISTING STEEL COLUMN
NO SCALE:



3 S-602 HSS GIRTS AT EXISTING STEEL BEAM
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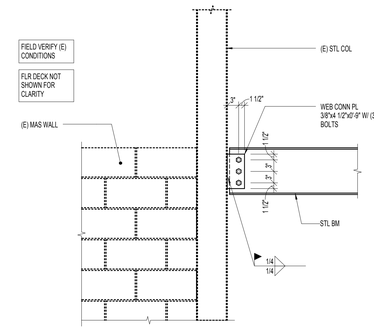
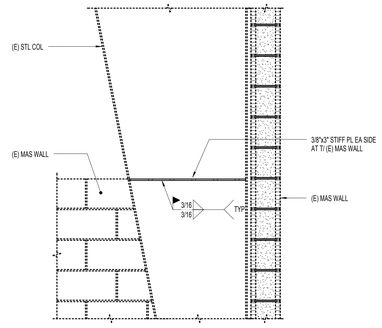
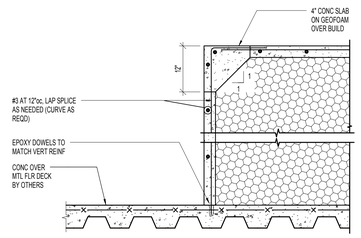


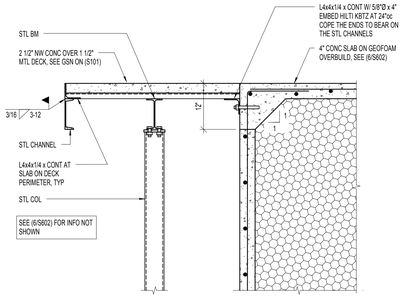
4 S-602 STEEL BEAM AT EXISTING STEEL COLUMN
NO SCALE:



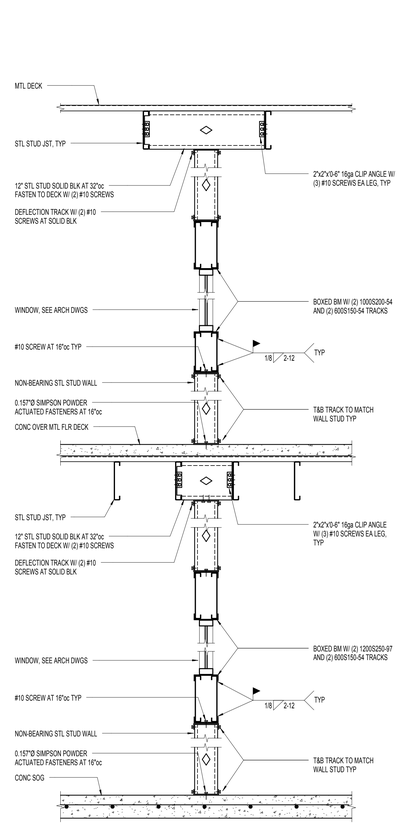
5 S-602 STIFFENER AT EXISTING STEEL COLUMN AT EXISTING MASONRY WALL
NO SCALE:



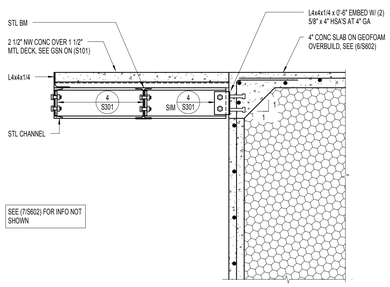
6 S-602 CONCRETE SLAB ON GEOFOAM OVERBUILD
NO SCALE:



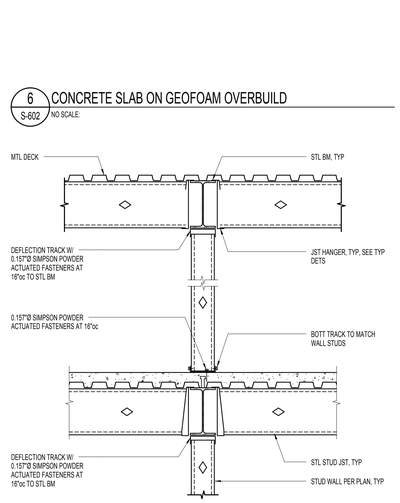
7 S-602 STEEL PLATFORM DETAIL
NO SCALE:



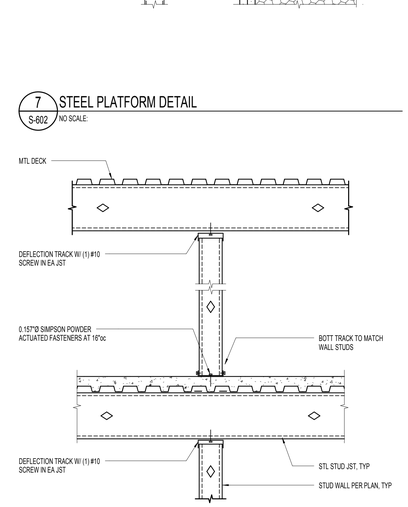
8 S-602 GRATE SUPPORT DETAIL
NO SCALE:



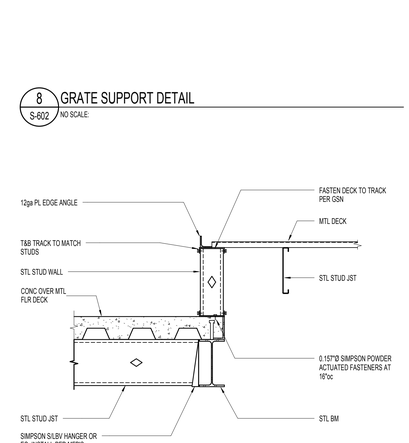
9 S-602 STEEL PLATFORM DETAIL
NO SCALE:



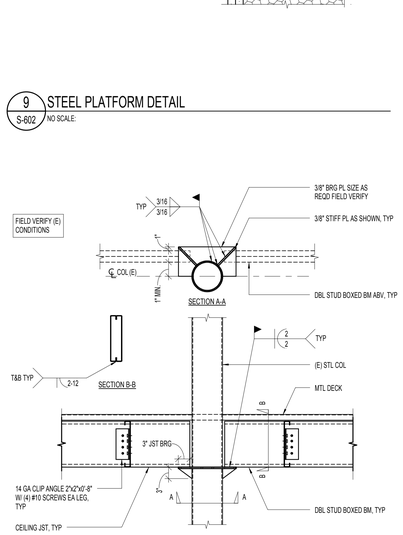
10 S-602 TYPICAL NON-BEARING WALL AT STEEL BEAM
NO SCALE:



11 S-602 TYPICAL NON-BEARING WALL AT JOISTS
NO SCALE:



12 S-602 WINDOW FRAMING AT OBSERVATION
NO SCALE:



13 S-602 DECK EDGE DETAIL
NO SCALE:

14 S-602 STEEL STUD HEADER AT EXISTING STEEL COLUMN
NO SCALE:

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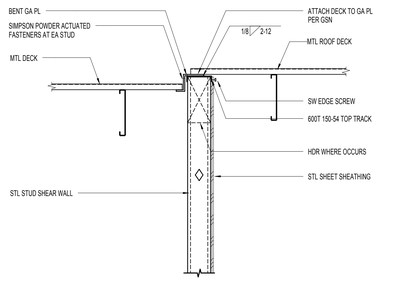
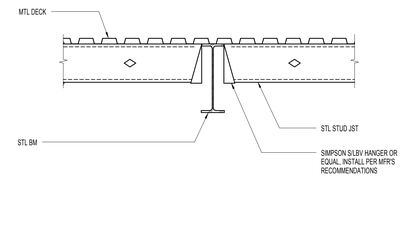
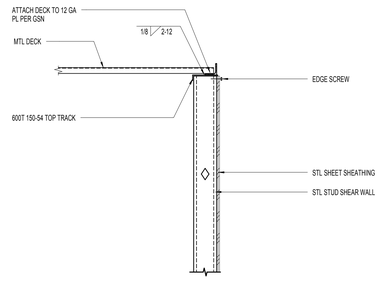


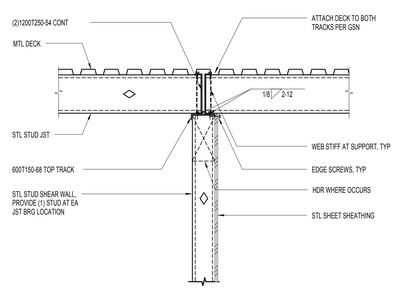
1 S-701 CEILING DECK BEARING AT WALL
NO SCALE:



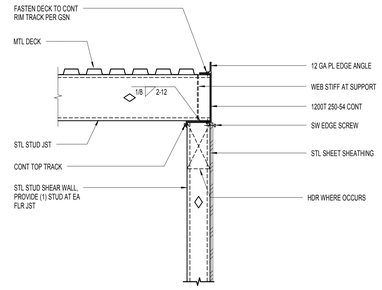
2 S-701 TYPICAL JOIST TO STEEL BEAM CONNECTION
NO SCALE:



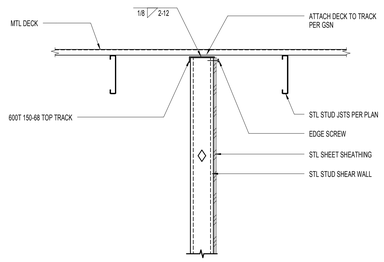
3 S-701 CEILING DECK BEARING AT WALL
NO SCALE:



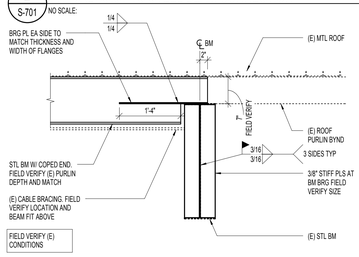
4 S-701 TYPICAL JOIST BEARING AT INTERIOR WALL
NO SCALE:



5 S-701 TYPICAL JOIST BEARING AT EXTERIOR WALL
NO SCALE:



6 S-701 CEILING DECK BEARING AT WALL
NO SCALE:



7 S-701 RTU SUPPORT BEAM AT EXISTING FRAME BEAM
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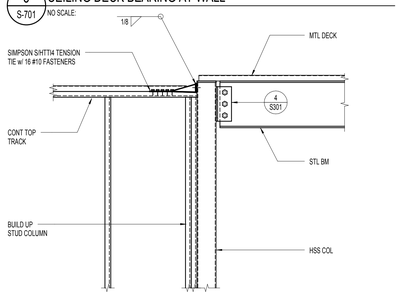

8 S-701 ROOF COLLECTOR CONNECTION
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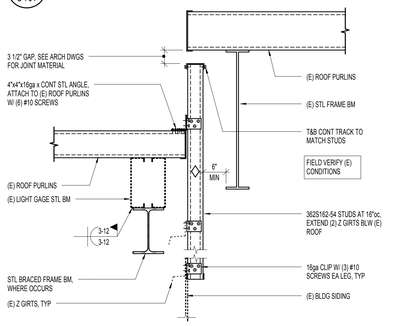
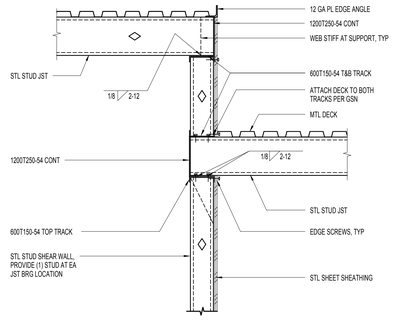
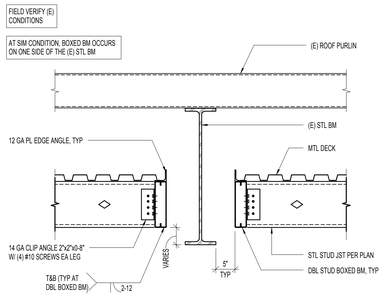


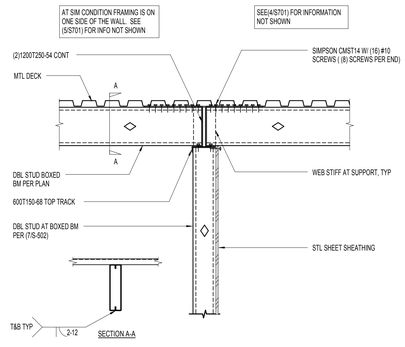
9 S-701 EXPANSION JOINT AT ROOF
NO SCALE:



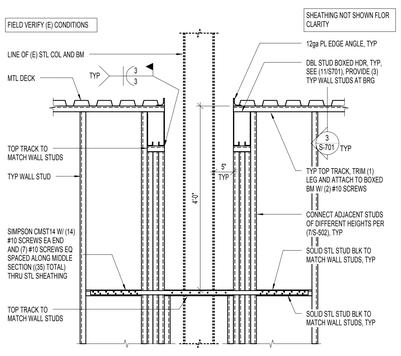
10 S-701 TYPICAL JOIST BEARING AT INTERIOR WALL
NO SCALE:



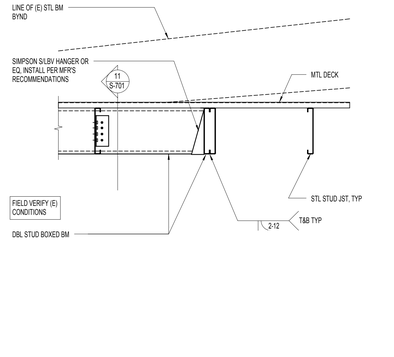
11 S-701 CEILING FRAMING DETAIL AT EXISTING STEEL BEAM
NO SCALE:



12 S-701 BOXED BEAM BEARING AT STEEL STUD WALL
NO SCALE:



13 S-701 SHEARWALL DETAIL AT EXISTING COLUMN
NO SCALE:



14 S-701 BOXED BEAM CONNECTION DETAIL
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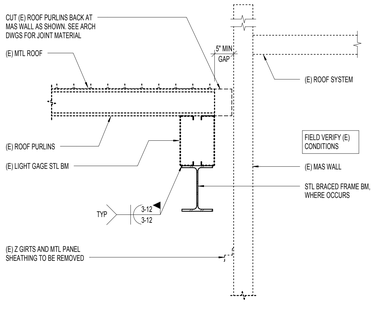
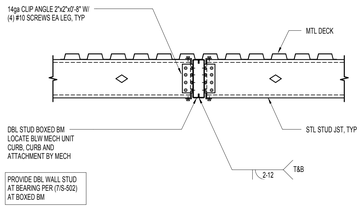
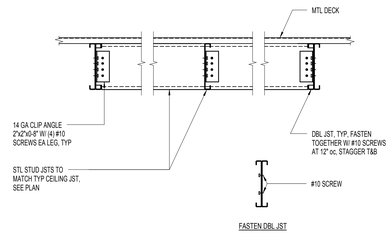


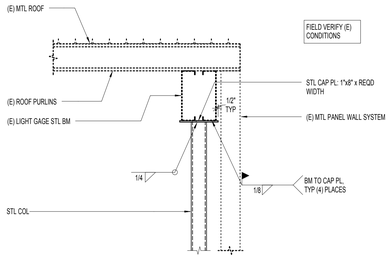
15 S-701 EXPANSION JOINT AT ROOF AT MASONRY WALL
NO SCALE:



16 S-701 MECHANICAL UNIT SUPPORT BEAM
NO SCALE:



17 S-701 TYPICAL HEADER AT FAN COIL
NO SCALE:



18 S-701 COLUMN AT EXISTING LIGHT GAGE BEAM
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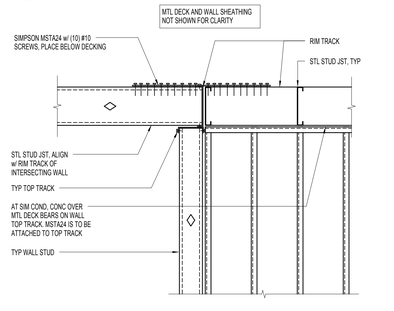

19 S-701 COLLECTOR CONNECTION AT CEILING
NO SCALE:

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03/19/2012
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NOTE:
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 02.03.2012

DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, i.e. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

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PROFESSIONAL STRUCTURAL ENGINEER No. 295747 TAIT W. KETCHAM 03/19/2012 STATE OF UTAH

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	BDR
DSGN BY:/CHKD BY:	TK
OWNER PROJECT NO.:	10124120
DUNN PROJECT NO.:	11088
ISSUED DATE:	03/19/2012

CEILING FRAMING DETAILS

S-701

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E. ALL PIPING SHALL BE DOMESTIC.

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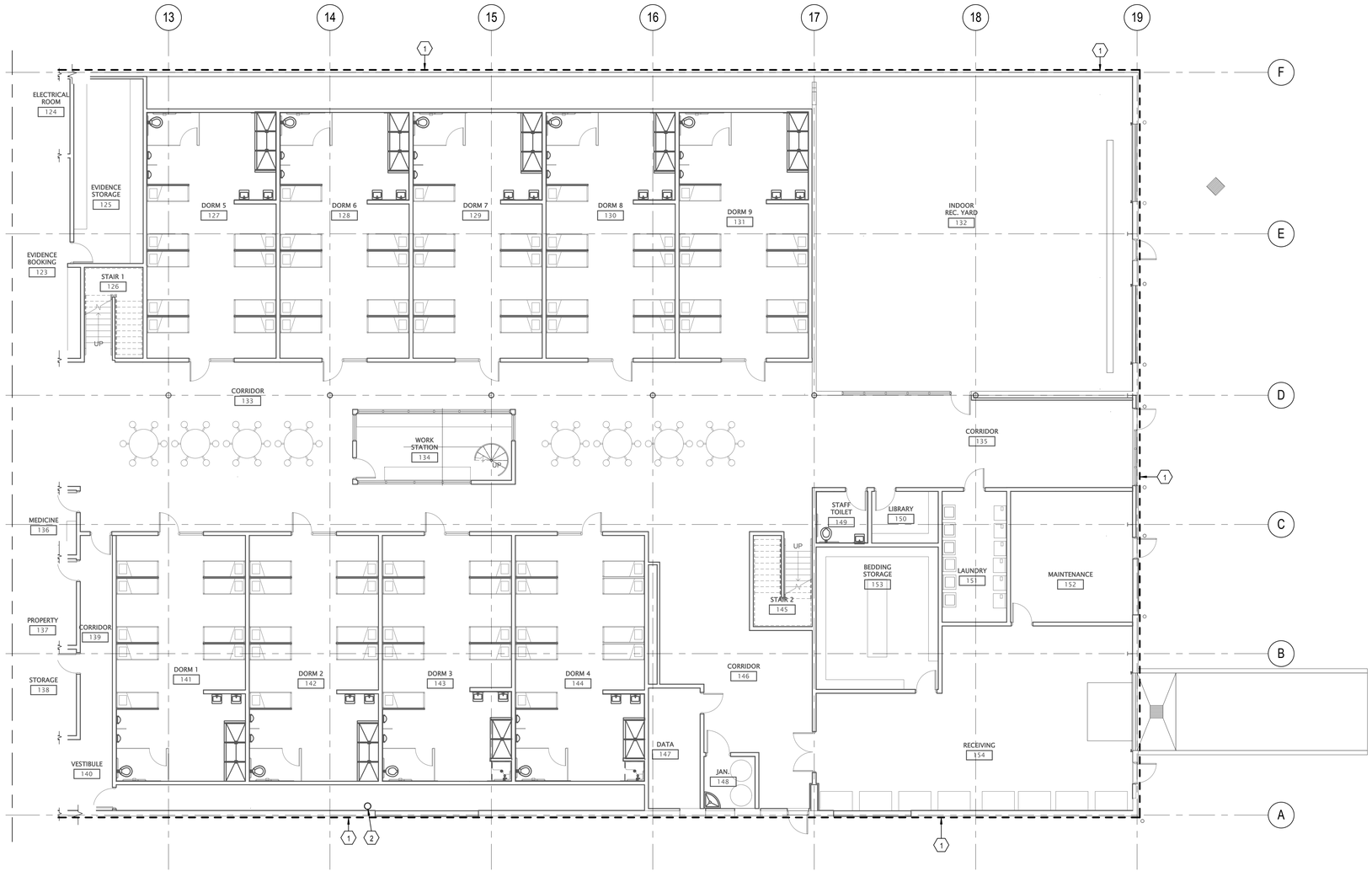
2 APPROXIMATE LOCATION OF EXISTING FIRE RISER. MODIFY AS REQUIRED TO ACCOMMODATE NEW FLOOR PLANS.



1 LEVEL 1 - AREA A - FIRE PROTECTION FLOOR PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

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Division of Facilities Construction and Management

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CEA PROJECT NO.:	2011-098.00
ISSUED DATE:	03/16/2012

FIRE PROTECTION FLOOR PLAN - LEVEL 1 AREA "A"

Construction Documents

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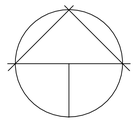

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T. COORDINATE WITH AHJ FOR SYSTEM DESIGN REQUIREMENTS.

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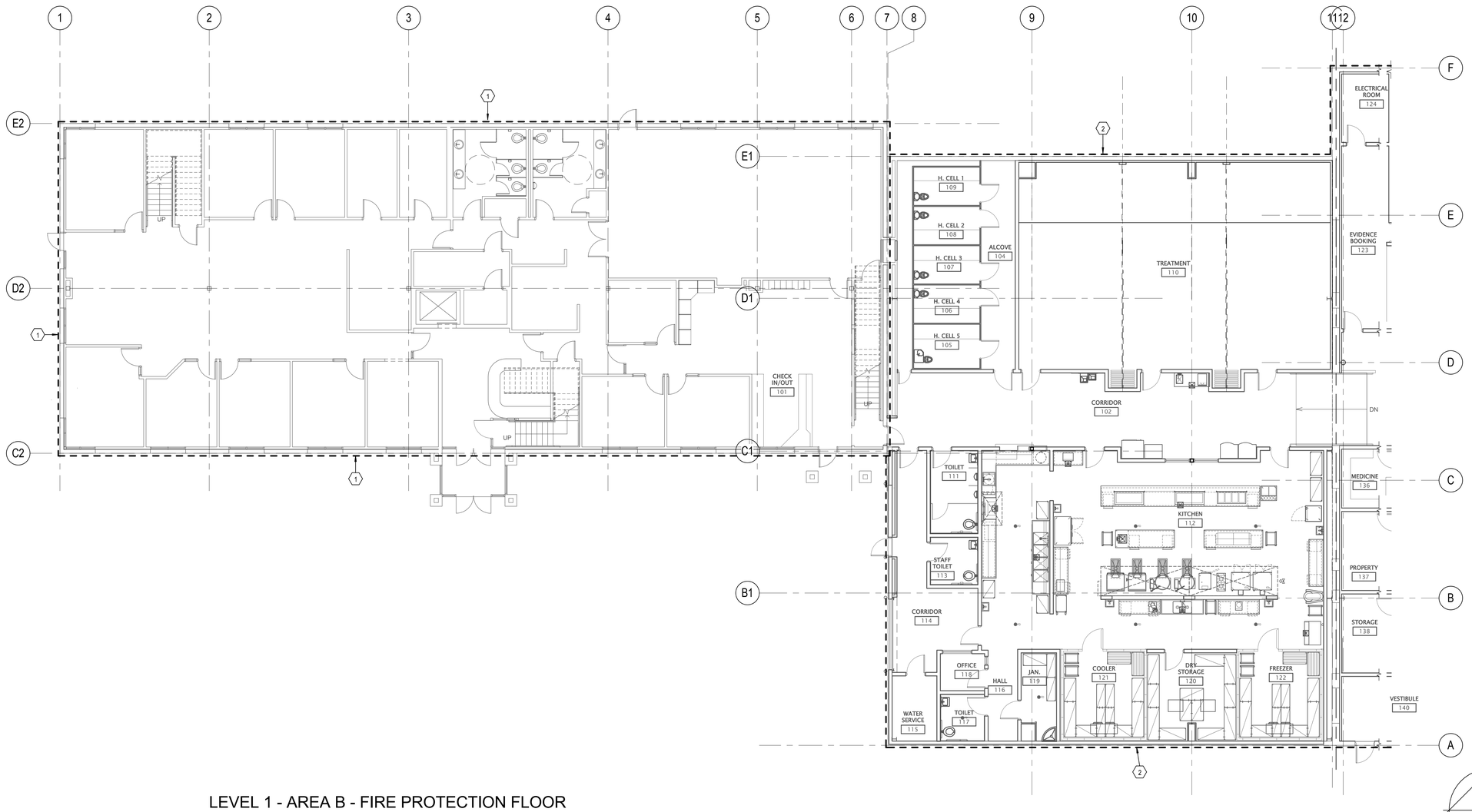

1 LEVEL 1 - AREA B - FIRE PROTECTION FLOOR PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

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Division of Facilities Construction and Management

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FIRE PROTECTION FLOOR PLAN - LEVEL 1 AREA "B"

Construction Documents

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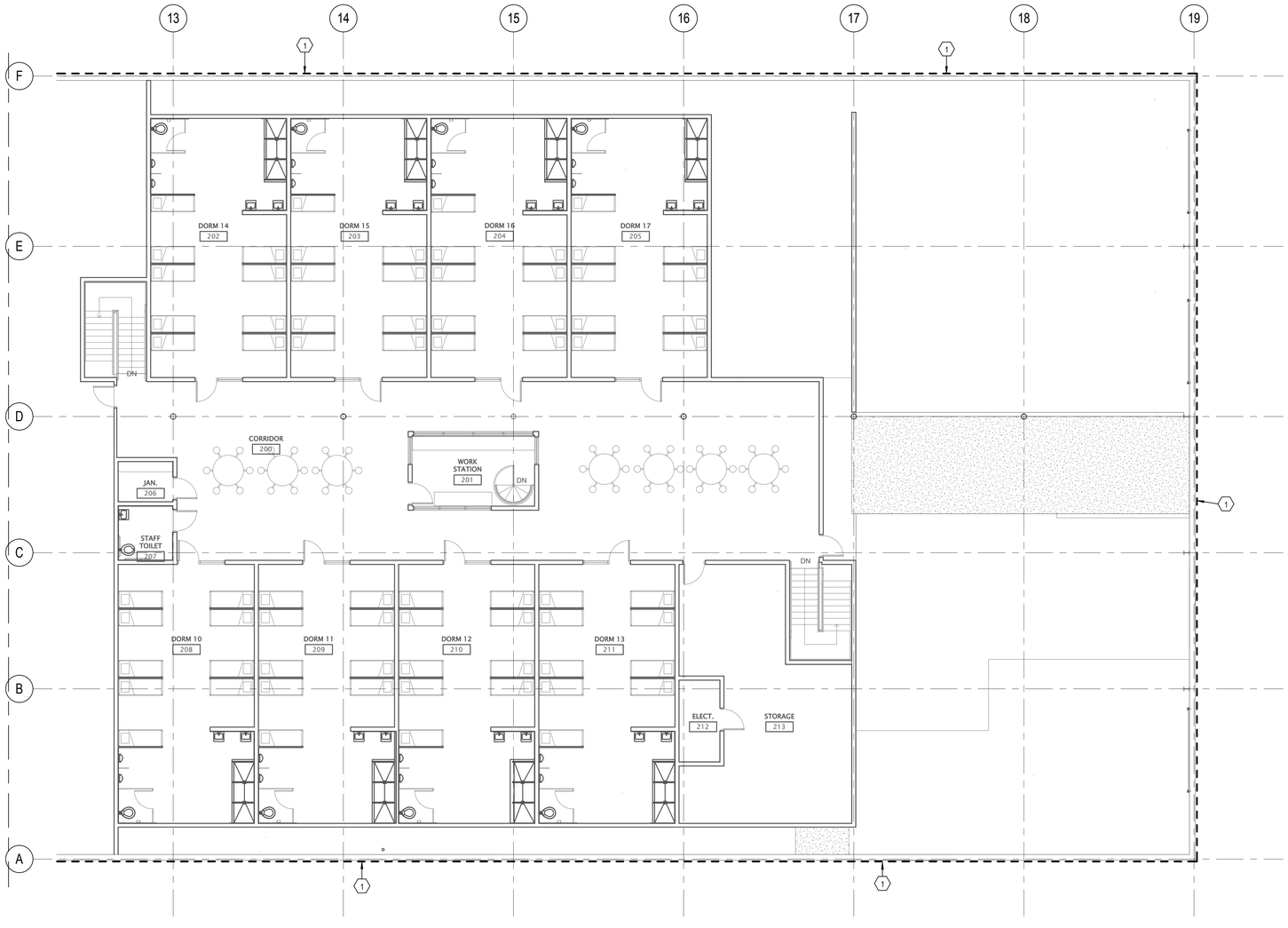

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SCALE: 1/8" = 1'-0"

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FIRE PROTECTION FLOOR PLAN - LEVEL 2 AREA "A"

Construction Documents

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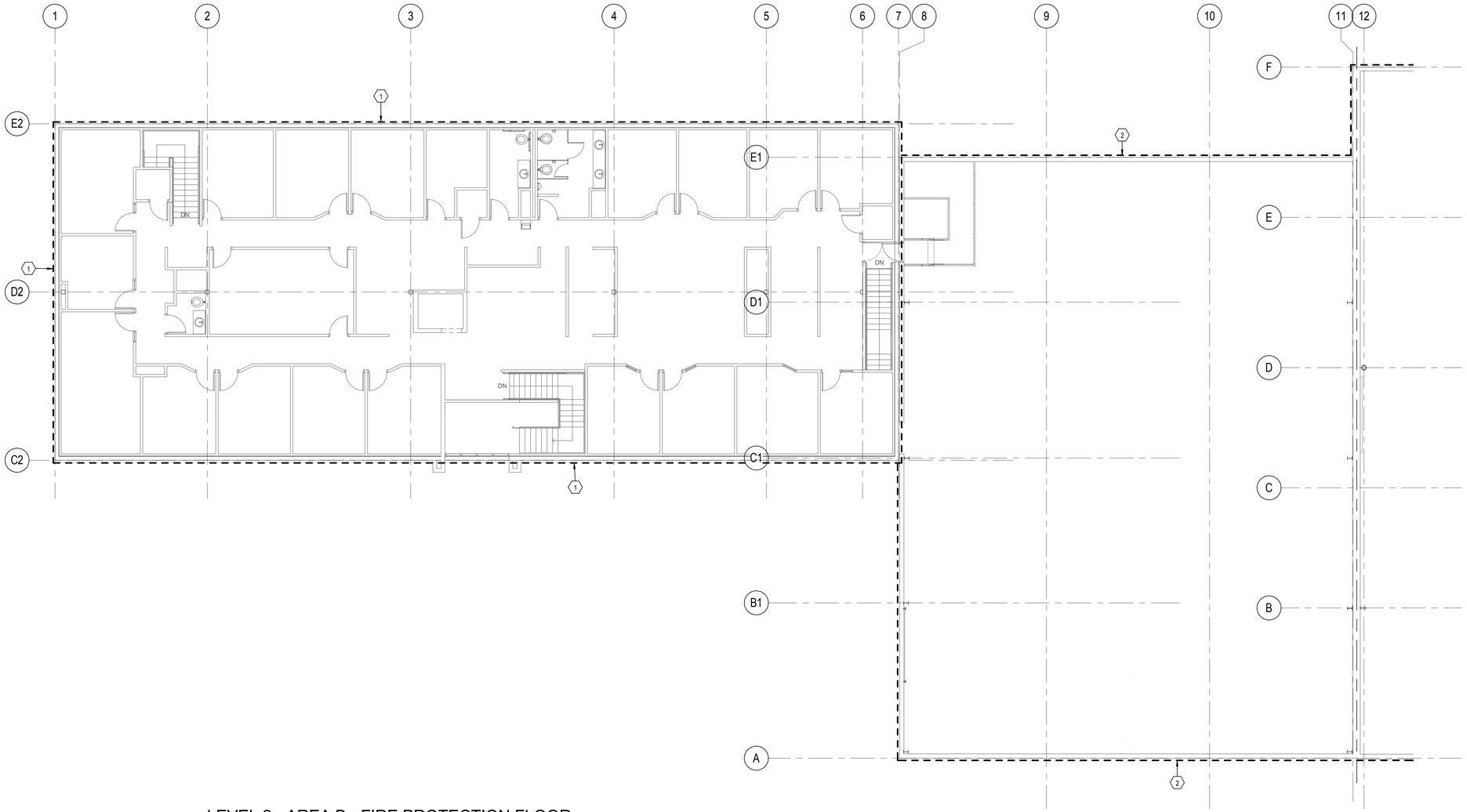

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03/16/2012
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Salt Lake City, Utah

Division of Facilities Construction and Management

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OWNER PROJECT NO.:	
CEA PROJECT NO.:	2011-098.00
ISSUED DATE:	03/16/2012

FIRE PROTECTION FLOOR PLAN - LEVEL 2 AREA "B"

Construction Documents

FP-121B

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www.gsbsarchitects.com

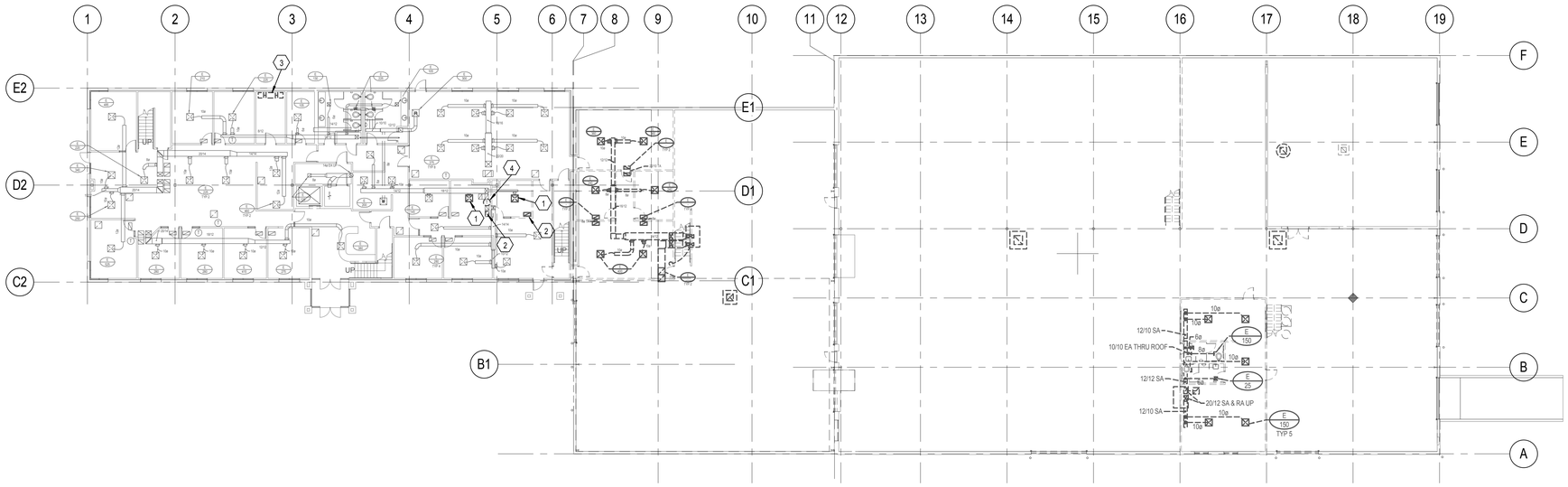
REVISIONS:

KEYED NOTES

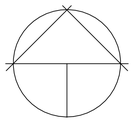
1. REMOVE SUPPLY DIFFUSER. STORE AND PROTECT FOR REINSTALLATION IN NEW CEILING. SUPPLY DUCT TO REMAIN.
2. REMOVE RETURN AIR GRILLE AND RETURN TO OWNER.
3. REMOVE EXISTING AC UNIT AND ALL ASSOCIATED DUCTWORK DIFFUSERS AND CONTROLS. REMOVE CONDENSING UNIT AND REFRIGERATION PIPING. CONDENSATE DRAIN PIPING TO REMAIN.
4. REMOVE THERMOSTAT, STORE AND PROTECT FOR REINSTALLATION. SEE NEW MECHANICAL DRAWINGS.

GENERAL NOTES

A. ALL EXISTING SHOWN LIGHT AND SOLID TO REMAIN, ALL ITEMS SHOWN DARK AND DASHED TO BE REMOVED.



1 LEVEL 1 - HVAC DEMOLITION PLAN
SCALE: 1/16" = 1'-0"
12' 0' 8' 16' 24' 32'



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PAROLE VIOLATOR CENTER

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MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1

Construction Documents

MD-111

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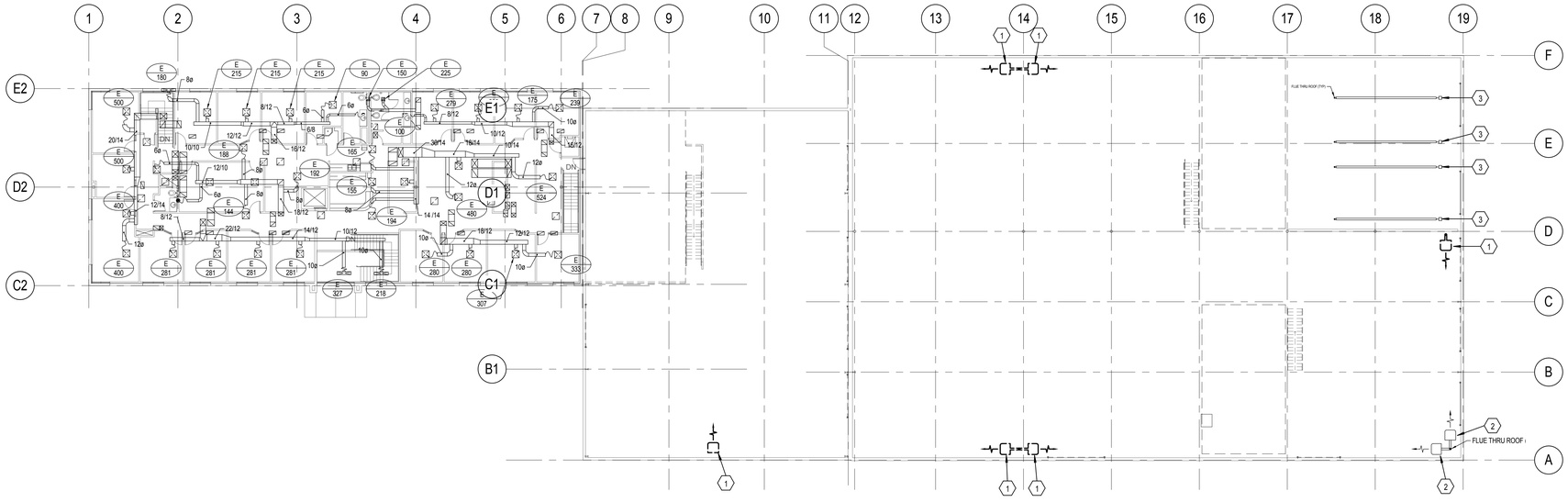
REVISIONS:

KEYED NOTES

1 REMOVE UNIT HEATER, FLUE AND CONTROLS.
2 UNIT HEATER TO REMAIN. CONTRACTOR TO FIELD VERIFY OPERATION AND REPAIR AS REQUIRED.
3 RADIANT TUBE HEATER TO REMAIN. CONTRACTOR TO FIELD VERIFY OPERATION AND REPAIR AS REQUIRED.



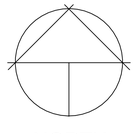
1 LEVEL 2 - HVAC DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

GENERAL NOTES

A. ALL EXISTING SHOWN LIGHT AND SOLID TO REMAIN, ALL ITEMS SHOWN DARK AND DASHED TO BE REMOVED.



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MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 2

Construction Documents

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REVISIONS:

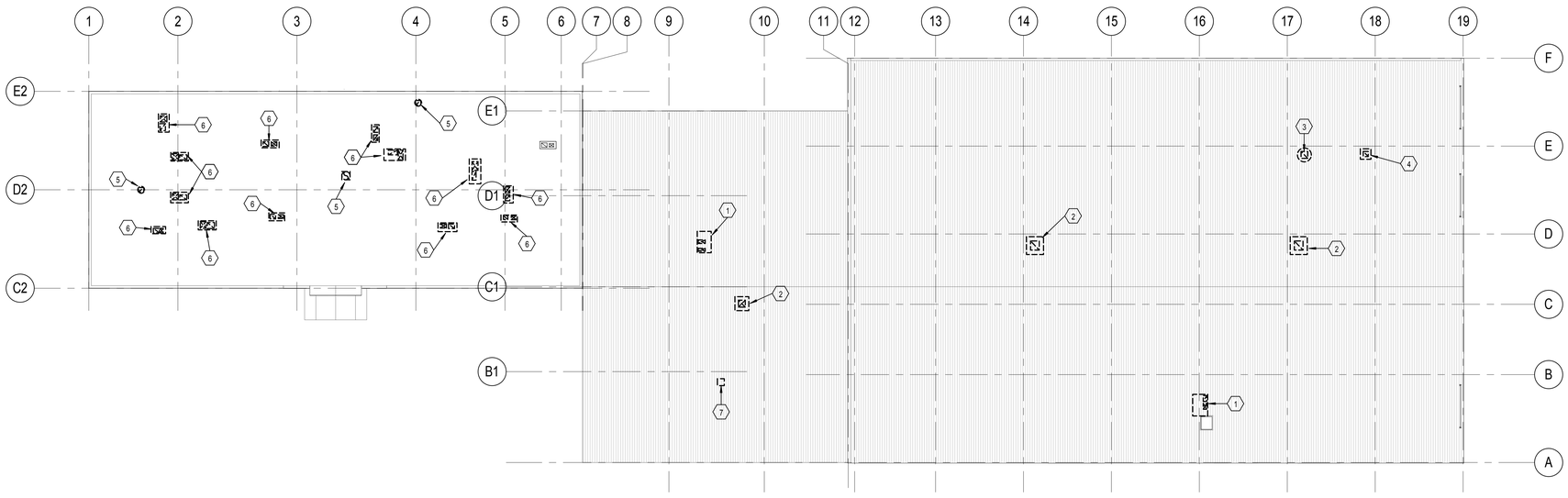
KEYED NOTES

1. REMOVE RTU AND ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS.
2. REMOVE EVAPORATIVE COOLER AND ALL ASSOCIATED DUCTWORK, PIPING BACK TO MAINS, AND CONTROLS.
3. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK AND CONTROLS. ROOF CURB TO REMAIN TO SUPPORT NEW VENT HOOD.
4. REMOVE EVAPORATIVE COOLER AND REPLACE WITH NEW.
5. REMOVE EXHAUST FAN AND REPLACE WITH NEW.
6. REMOVE ROOF TOP UNIT AND REPLACE WITH NEW.
7. REMOVE GRAVITY VENT.

GENERAL NOTES

A. ALL EXISTING SHOWN LIGHT AND SOLID TO REMAIN, ALL ITEMS SHOWN DARK AND DASHED TO BE REMOVED.

B. SEE NEW ROOF PLAN FOR NEW EQUIPMENT.



1 ROOF LEVEL - DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

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PAROLE VIOLATOR CENTER

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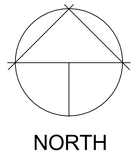

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MECHANICAL AND PLUMBING DEMOLITION PLAN - ROOF LEVEL

Construction Documents

MD-131

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PL-601	PLUMBING SCHEDULES

ABBREVIATIONS

Ø	ROUND OR DIAMETER	LWT	LEAVING WATER TEMPERATURE
AD	ACCESS DOOR	MAX	MAXIMUM
AF	AIRFOIL	MBH	THOUSAND BRITISH THERMAL UNITS/HOUR
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ALT	ALTERNATE	MIN	MINIMUM
BI	BACKWARD INCLINED	NC	NOISE CRITERIA OR NORMALLY CLOSED
BOD	BOTTOM OF DUCT	NIC	NOT IN CONTRACT
BOP	BOTTOM OF PIPE	NO	NUMBER
BTUH	BRITISH THERMAL UNITS PER HOUR	NOM	NOMINAL
CAP	CAPACITY	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CV	CONSTANT VOLUME	OBD	OPPOSED BLADE DAMPER
DB	DRY BULB	OD	OVERFLOW DRAIN
DN	DOWN	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DIA	DIAMETER	OFOI	OWNER FURNISHED, OWNER INSTALLED
DCW	DOMESTIC COLD WATER	PD	PRESSURE DROP
DHW	DOMESTIC HOT WATER	POC	POINT OF CONNECTION
DHWC	DOMESTIC HOT WATER CIRC.	PRV	PRESSURE REDUCING VALVE
DSN	DOWN SPOUT NOZZLE	PSI	POUNDS PER SQUARE INCH
DW	DISHWASHER	PSIG	POUNDS PER SQUARE INCH GAUGE
(E)	EXISTING	RA	RETURN AIR
EA	EXHAUST AIR	RAD	RADIUS
EAT	ENTERING AIR TEMPERATURE	RD	ROOF DRAIN
EFF	EFFICIENCY	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
ELEV	ELEVATION	SA	SUPPLY AIR OR SHOCK ARRESTOR
ENCL	ENCLOSURE	SEN	SENSIBLE
ESP	EXTERNAL STATIC PRESSURE	SIM	SIMILAR
ET	EXPANSION TANK	SL	SEA LEVEL
EWC	ELECTRIC WATER COOLER	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	SF	SQUARE FEET
FCO	FLOOR CLEANOUT	SS	SERVICE SINK OR STAINLESS STEEL
FD	FLOOR DRAIN	TOD	TOP OF DUCT
FO	FLAT OVAL	TSP	TOTAL STATIC PRESSURE
FPM	FEET PER MINUTE	TYP.	TYPICAL
FS	FLOOR SINK	U	URINAL
FT	FEET	V	VENT
FV	FACE VELOCITY	VAV	VARIABLE AIR VOLUME
GA	GAUGE	VD	VOLUME DAMPER
GAL	GALLON	VFD	VARIABLE FREQUENCY DRIVE
GD	GARAGE DRAIN	VOL	VOLUME
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
HP	HORSEPOWER	W/	WITH
HR	HOUR	W/O	WITHOUT
HT	HEIGHT	WB	WET BULB
IN	INCH	WC	WATER CLOSET
INWC	INCHES OF WATER COLUMN	MVD	MANUAL VOLUME DAMPER
INWG	INCHES OF WATER GAUGE	WCO	WALL CLEANOUT
L	LAVATORY OR LOUVER	WPD	WATER PRESSURE DROP
LAT	LEAVING AIR TEMPERATURE	WT	WEIGHT
LBS	POUNDS		

ALTITUDE: 4260 FT

SITE ATMOSPHERIC PRESSURE: 12.57 P.S.I.

MECHANICAL LEGEND

NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS

GATE VALVE		DEIONIZED WATER	DI
OS & Y PATTERN GATE VALVE		DEIONIZED WATER RETURN	DIR
BALL VALVE		FIRE SERVICE	F
BUTTERFLY VALVE		NATURAL GAS	G
MOTORIZED VALVE OPERATOR	M	PROPANE	P
GAS COCK		HEAT TRACING	
PLUG VALVE		CHILLED WATER SUPPLY	CHS
CHECK VALVE (SWING OR LIFT AS REQ'D)		CHILLED WATER RETURN	CHR
SOLENOID VALVE	S	CONDENSER WATER SUPPLY	CS
AUTOMATIC CONTROL VALVE (2-WAY)	S	CONDENSER WATER RETURN	CR
AUTOMATIC CONTROL VALVE (3-WAY)	S	GROUND LOOP SUPPLY	GLS
PRESSURE REDUCING VALVE	S	GROUND LOOP RETURN	GLR
P & T RELIEF VALVE		HEATING WATER SUPPLY	HWS
AIR VENT (AUTOMATIC)		HEATING WATER RETURN	HWR
CURB COCK		RADIANT FLOOR SUPPLY	RFS
THERMAL EXPANSION VALVE		RADIANT FLOOR RETURN	RFR
STRAINER		SNOW MELT SUPPLY	SMS
CALIBRATED BALANCE VALVE		SNOW MELT RETURN	SMR
VENTURI FLOW METER		STEAM	S
REDUCER		STEAM CONDENSATE RETURN	SCR
PET COCK OR GAUGE COCK		REFRIGERANT LIQUID	RL
PRESSURE GAUGE W/GAUGE COCK		REFRIGERANT SUCTION	RS
THERMOMETER		HOT GAS	HG
TEMPERATURE & PRESSURE TEST PLUG		HOT GAS BYPASS	HGBP
IN-LINE PUMP		DUCT SIZE (IN), FIRST FIGURE IS SIDE SHOWN	18/12
FLOW SWITCH	F	BURIED OR UNDERFLOOR DUCT	
AQUASTAT	A	FLEXIBLE DUCT (HELICAL)	
TEMPERATURE SENSING WELL	W	SPIN-IN FITTING W/ MVD	
HOSE BIBB OR SILLCOCK		FLEXIBLE DUCT CONNECTION	
YARD HYDRANT		SUPPLY SLOT DIFFUSER	
FLOOR DRAIN		SUPPLY DIFFUSER	
FLOOR SINK		RETURN GRILLE	
MANHOLE		RADIAL SUPPLY DIFFUSERS	
WALL CLEANOUT		RETURN AIR DUCT SECTION	
FLOOR OR GRADE CLEANOUT		RETURN AIR DUCT UP	
GRADE CLEANOUT W/ CONCRETE PAD		RETURN AIR DUCT DOWN	
VENT THROUGH ROOF (ISOMETRIC)		SUPPLY AIR DUCT SECTION	
POST TYPE FDC CONNECTION		SUPPLY AIR DUCT UP	
WALL TYPE FDC CONNECTION		SUPPLY AIR DUCT DOWN	
FIRE HOSE CABINET		EXHAUST AIR DUCT SECTION	
FIRE DEPT. HORN & LIGHT		EXHAUST AIR DUCT UP	
EXPANSION JOINT		EXHAUST AIR DUCT DOWN	
FLEXIBLE PIPE CONNECTION		ACCESS PANEL	
REDUCED PRESSURE BACKFLOW PREVENTER	RPBP	MANUAL VOLUME DAMPER	M
DIRECTION OF FLOW		GRAVITY BACKDRAFT DAMPER	G
ELBOW DOWN		MOTORIZED DAMPER	M
ELBOW UP		AIR FLOW STATION	F
PIPE CAP		FIRE DAMPER	F
TEE DOWN		SMOKE DAMPER	S
UNION		COMBINATION FIRE/SMOKE DAMPER	C
DOMESTIC COLD WATER		DUCT TRANSITION	
DOMESTIC HOT WATER		ELBOW W/ TURNING VANES	
HOT WATER CIRC.		TEE W/ 45° ENTRY	
TEMPERED WATER	T	WYE W/ 45° ENTRY	
SANITARY (PLBG) VENT		THERMOSTAT OR TEMP SENSOR	T
SANITARY SEWER ABOVE GRADE		HUMIDISTAT OR HUMIDITY SENSOR	H
SANITARY SEWER BELOW GRADE		CARBON MONOXIDE SENSOR	CO
GREASE WASTE ABOVE GRADE	GW	CARBON DIOXIDE SENSOR	CO_2
GREASE WASTE BELOW GRADE	GW	NITROGEN DIOXIDE SENSOR	NO_2
DRAIN	D	POINT OF REMOVAL FROM EXISTING	
ROOF DRAIN	RD	POINT OF CONNECTION TO EXISTING	
OVERFLOW DRAIN	OD	DETAIL TAG	DETAIL NO. / DRAWING NO.
STORM DRAIN ABOVE GRADE	SD	KEYED NOTE	NOTE NO.
STORM DRAIN BELOW GRADE	SD	SECTION CUT LINE	SECTIONS NO. / DRAWING NO.
COMPRESSED AIR	CA		
INDUSTRIAL WATER (NON-POTABLE)	IW		

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STEPHEN G. COLVIN
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REGISTERED PROFESSIONAL ENGINEER

PAROLE VIOLATOR CENTER

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Division of Facilities Construction and Management

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MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS

Construction Documents

MH-001

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REVISIONS:

1	02/13/2012	FIRE PROTECTION REVIEW COMMENTS

GENERAL NOTES

A. SEE FAN COIL (FC) AND DX COOLING-ONLY FAN COIL UNIT (DXFC) SCHEDULES FOR OUTSIDE AIR REQUIREMENTS.

B SEE SHEET MH201,202,203 FOR SCHEMATICS

KEYED NOTES

1 10" x 10" UP TO EXHAUST FAN ON ROOF TRANSITION TO FAN AS REQUIRED.

2 PROVIDE MOTORIZED DAMPER. INTERLOCK TO OPEN WHEN EC-1 IS ON, SHUT WHEN EC-1 IS OFF.

3 PROVIDE NEW 4-WAY THROW SUPPLY DIFFUSER. CONNECT TO BOTTOM OF EXISTING DUCT.

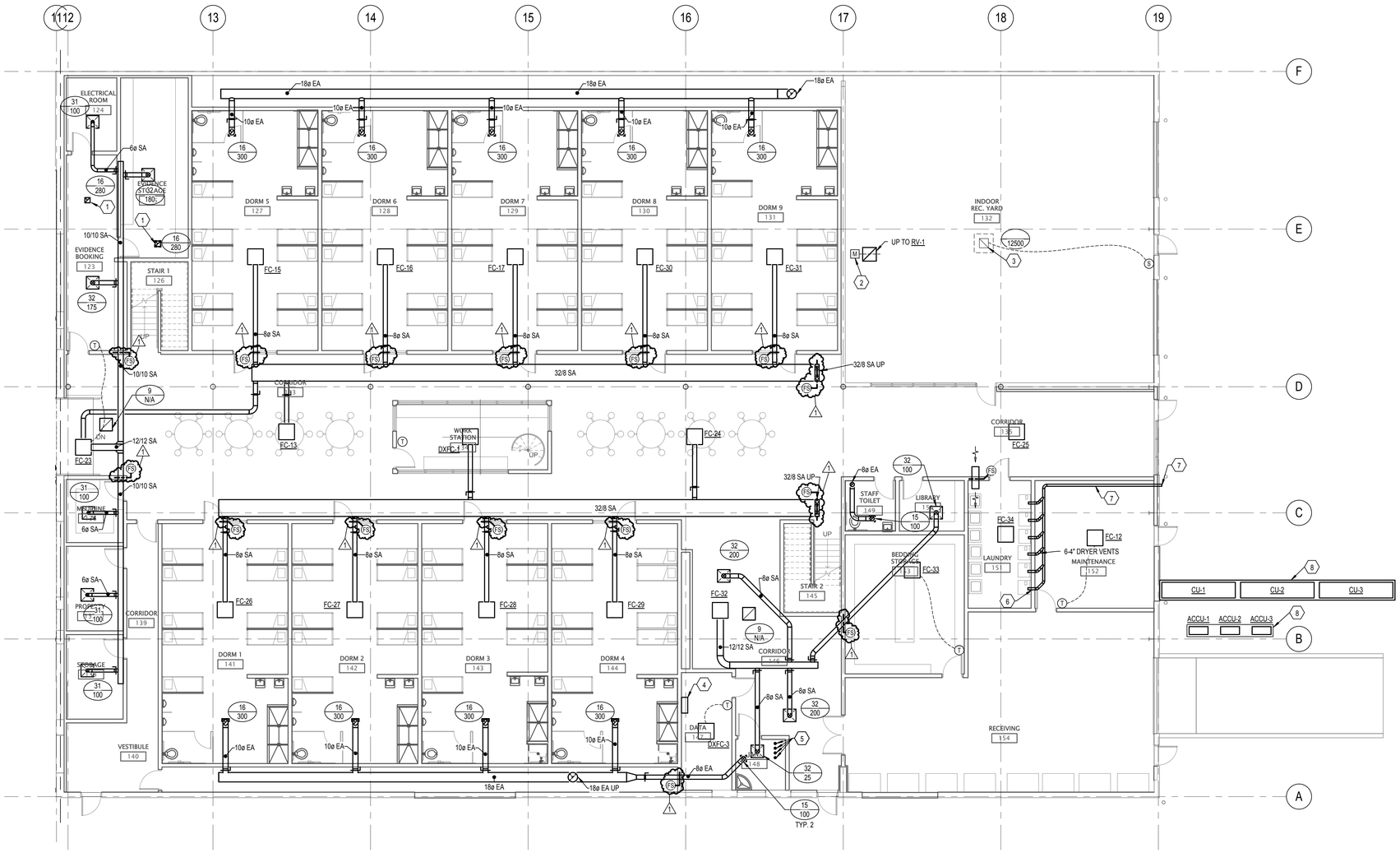
4 VRF SYSTEM CENTRAL CONTROLLER. COORDINATE INSTALLATION LOCATION WITH DATA EQUIPMENT.

5 4" WATER HEATER VENT AND INTAKE UP THROUGH ROOF.

6 DROP 4" DRYER VENT DOWN TO DRYER CONNECTION AND PROVIDE CLEANOUT (TYP. 6 DRYERS).

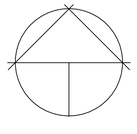
7 ROUTE EACH DRYER VENT TO OUTSIDE AND PROVIDE TERMINATION WITH DAMPER (TYP. 6 DRYER VENTS).

8 PROVIDE HOUSEKEEPING PADS TO INSTALL EQUIPMENT LEVEL.



1 LEVEL 1 - AREA A - MECHANICAL FLOOR PLAN

SCALE: 1/8" = 1'-0"



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MECHANICAL FLOOR PLAN - LEVEL 1 AREA "A"

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GENERAL NOTES

A. SEE FAN COIL (FC) AND DX COOLING-ONLY FAN COIL UNIT (DXFC) SCHEDULES FOR OUTSIDE AIR REQUIREMENTS.

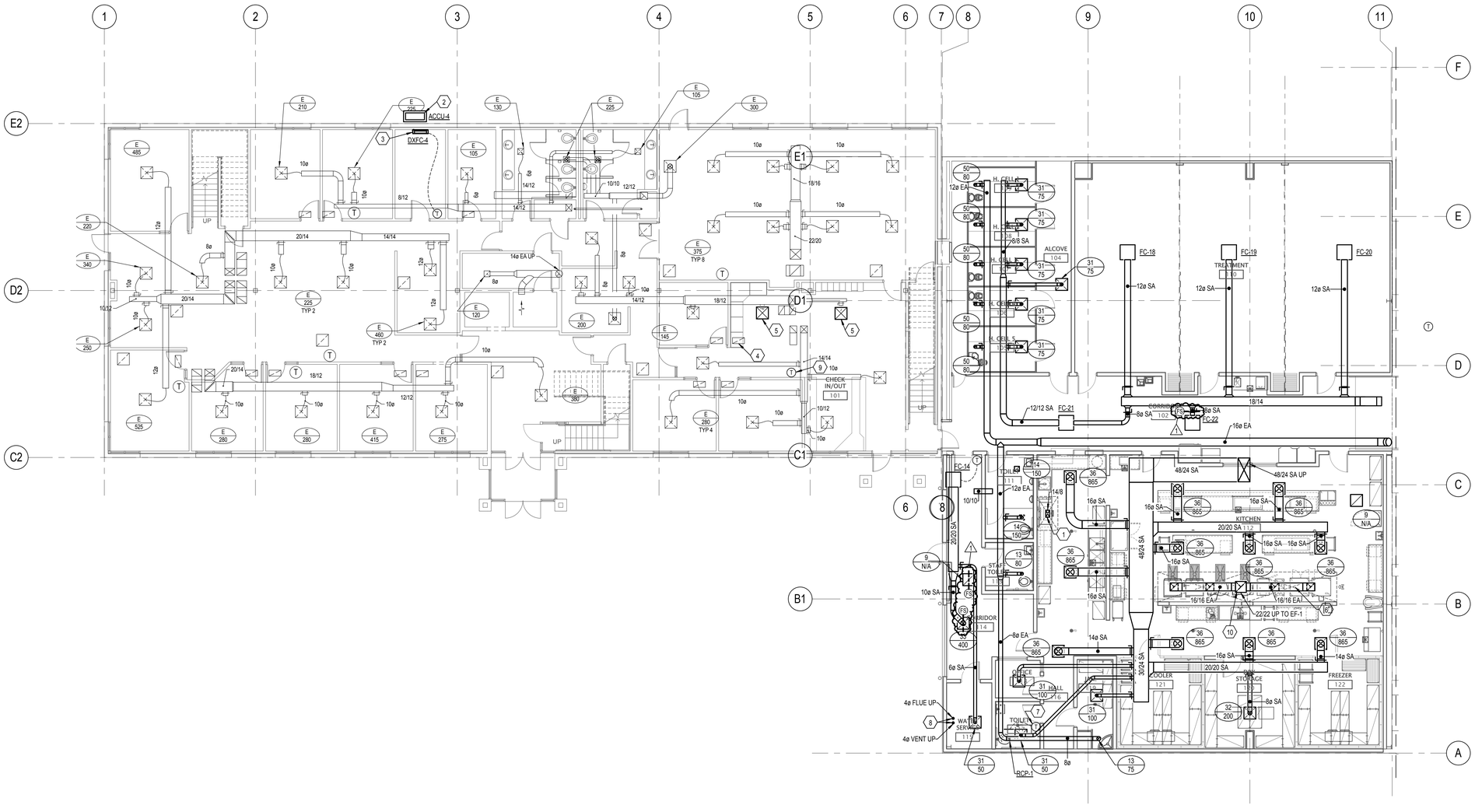
B SEE SHEET MH201,202,203 FOR SCHEMATICS

KEYED NOTES

1. CONNECT TO DISHWASHER HOOD. COORDINATE WITH HOOD SUPPLIER FOR CONNECTION SIZE AND PROVIDE TRANSITION AS REQUIRED.
2. PROVIDE CONCRETE PAD.
3. PROVIDE FACTORY REFRIGERANT LINE SET.
4. REINSTALL EXISTING RETURN AIR GRILLE.
5. REINSTALL EXISTING SUPPLY AIR DIFFUSER IN NEW CEILING. COORDINATE LOCATION WITH LIGHTING. EXTEND EXISTING DUCTWORK AS REQUIRED TO RECONNECT TO EXISTING DIFFUSER.
6. FYREWRAP ENTIRE EXHAUST DUCTWORK FROM HOOD CONNECTION TO EXHAUST FAN CONNECTION.
7. THERMOSTAT TO CONTROL RCP-1.
8. 4" WATER HEATER VENT AND INTAKE UP THROUGH ROOF.
9. INSTALL EXISTING THERMOSTAT, EXTEND CONTROL WIRING AS REQUIRED.
10. COORDINATE HOOD CONNECTIONS WITH MANUFACTURER AND ANY TRANSITIONS AS REQUIRED.

REVISIONS:

1	02/13/2012	FIRE PROTECTION REVIEW COMMENTS



1 LEVEL 1 - AREA B - MECHANICAL FLOOR PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

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GENERAL NOTES

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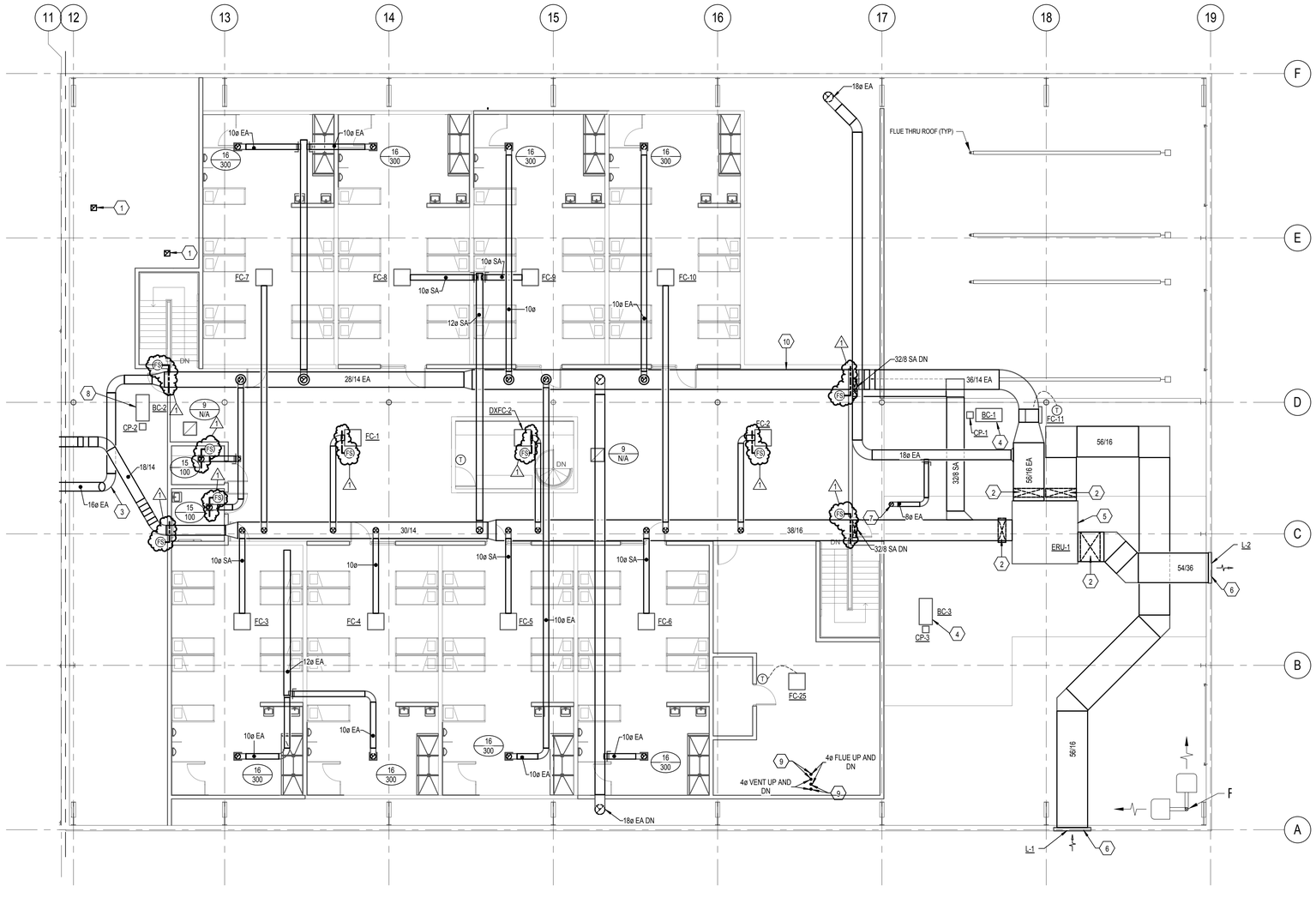
B SEE SHEET MH201,202,203 FOR SCHEMATICS

KEYED NOTES

1 10" x 10" UP TO EXHAUST FAN ON ROOF TRANSITION TO FAN AS REQUIRED.
2 ROUTE DUCT DOWN AND PROVIDE DUCT TRANSITION TO ERV OPENINGS PROVIDE FLEXIBLE CANVAS CONNECTION.
3 TRANSITION EXHAUST AND OUTSIDE AIR DUCT DOWN TO UNDERSIDE OF LOWER WAREHOUSE STRUCTURE.
4 INSTALL BC IN MECHANICAL ROOM.
5 ERV UNIT TO BE INSTALLED ON PLATFORM. PROVIDE VIBRATION ISOLATORS.
6 INSTALL LOUVER IN VISION PANEL. COORDINATE EXACT LOCATION ON SITE.
7 8" ROUND EXHAUST DUCT DOWN TO RESTROOM ON LEVEL 1.
8 INSTALL BC IN ELECTRICAL ACCESS AREA.
9 4" WATER HEATER VENT AND INTAKE UP THROUGH ROOF.
10 INSTALL SUPPLY AND EXHAUST DUCTWORK TIGHT TO STRUCTURE AT ROOF PITCH. FEILD VERIFY EXACT LOCATION.

REVISIONS:

1	02/13/2012	FIRE PROTECTION REVIEW COMMENTS



1 LEVEL 2 - AREA A - MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

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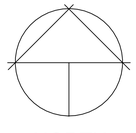

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MECHANICAL FLOOR PLAN - LEVEL 2 AREA "A"

Construction Documents

MH-121A

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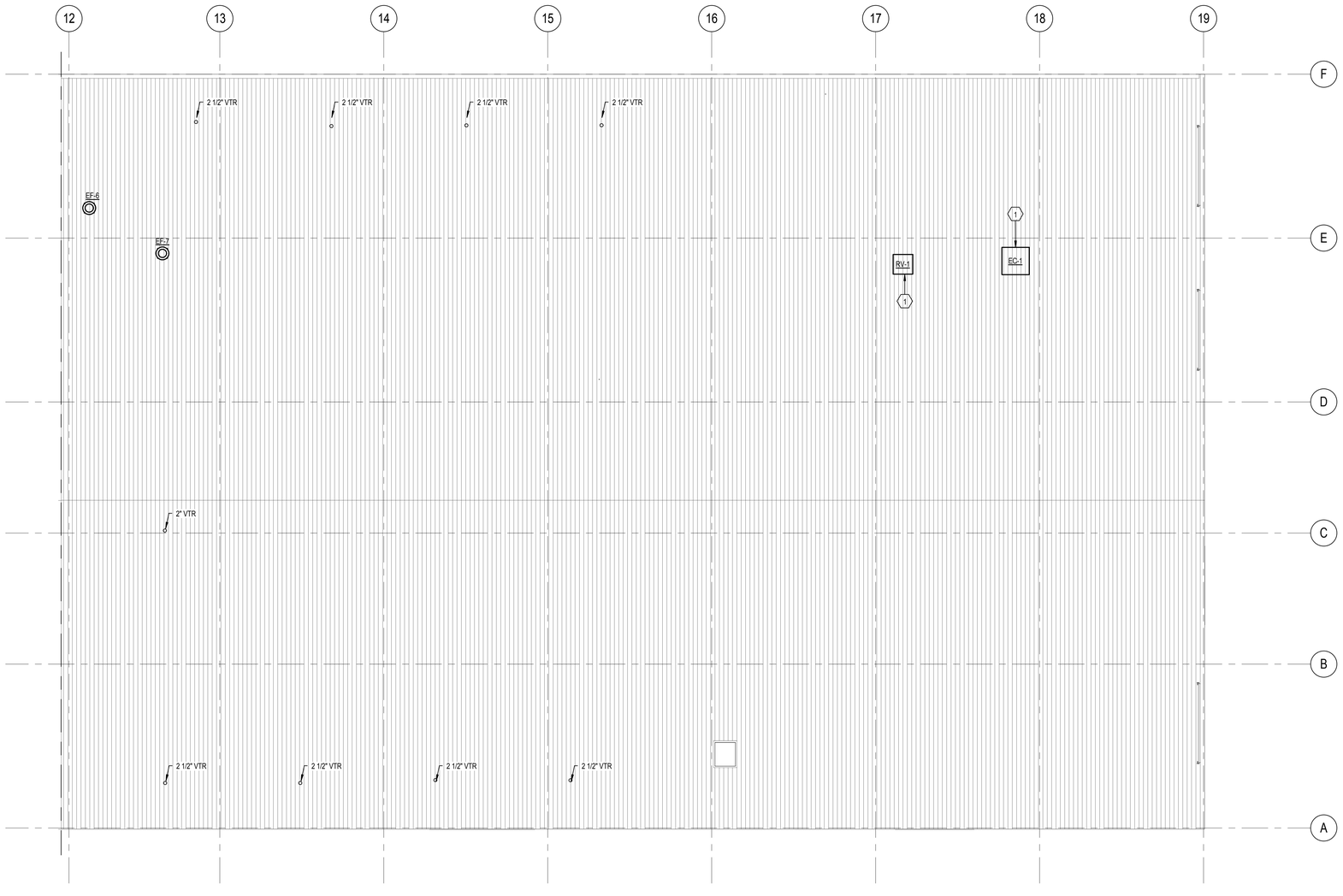
REVISIONS:

GENERAL NOTES

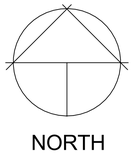
A. SEE FAN COIL (FC) AND DX COOLING-ONLY FAN COIL UNIT (DXFC) SCHEDULES FOR OUTSIDE AIR REQUIREMENTS.
B SEE SHEET MH201,202,203 FOR SCHEMATICS

KEYED NOTES

1 INSTALL ON EXISTING CURB.



1 ROOF LEVEL - AREA A - MECHANICAL AND PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"
6' 0' 4' 8' 12' 16'



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PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

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MECHANICAL AND PLUMBING FLOOR PLAN - ROOF LEVEL AREA "A"

Construction Documents

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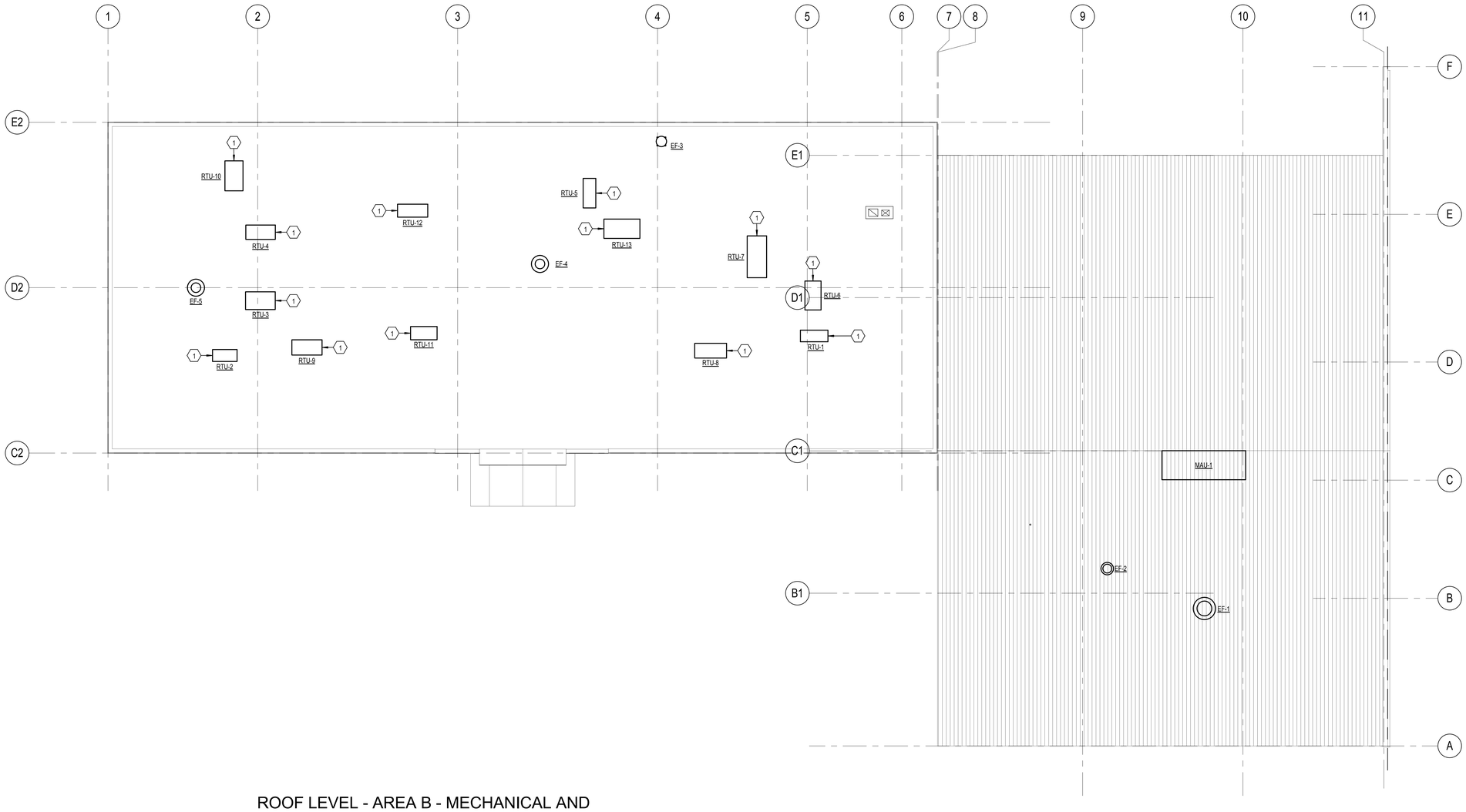

1 ROOF LEVEL - AREA B - MECHANICAL AND PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

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MECHANICAL AND PLUMBING FLOOR PLAN - ROOF LEVEL AREA "B"

Construction Documents

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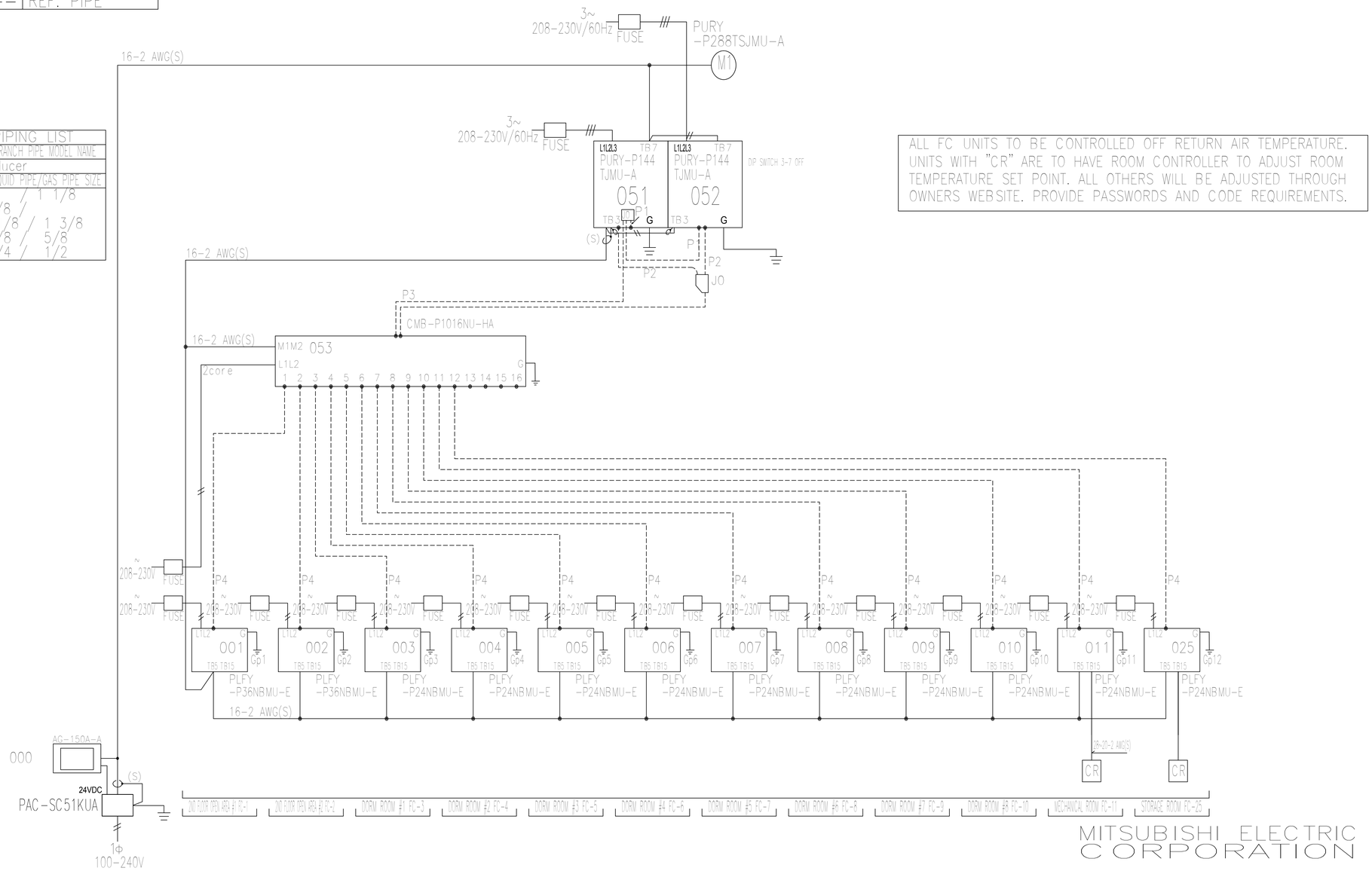
REVISIONS:

CITY MULTI
SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm(24 AWG) and 0.75mm(20 AWG).

DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
—///—	POWER WIRE
———	CONTROL WIRE
– – – –	REF. PIPE

PIPING LIST	
SYMBOL	BRANCH PIPE MODEL NAME
J1	Reducer
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	/ 1 1/8
P2	7/8 /
P3	1 1/8 / 1 3/8
P4	3/8 / 5/8
P5	1/4 / 1/2



ALL FC UNITS TO BE CONTROLLED OFF RETURN AIR TEMPERATURE. UNITS WITH "CR" ARE TO HAVE ROOM CONTROLLER TO ADJUST ROOM TEMPERATURE SET POINT. ALL OTHERS WILL BE ADJUSTED THROUGH OWNERS WEBSITE. PROVIDE PASSWORDS AND CODE REQUIREMENTS.

MITSUBISHI ELECTRIC CORPORATION

1 SYSTEM 1 BC-1
SCALE: NONE

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Stephen G. Conner
187524
3/16/2012
State of Utah

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MECHANICAL SCHEMATICS

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Construction Documents

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———	CONTROL WIRE
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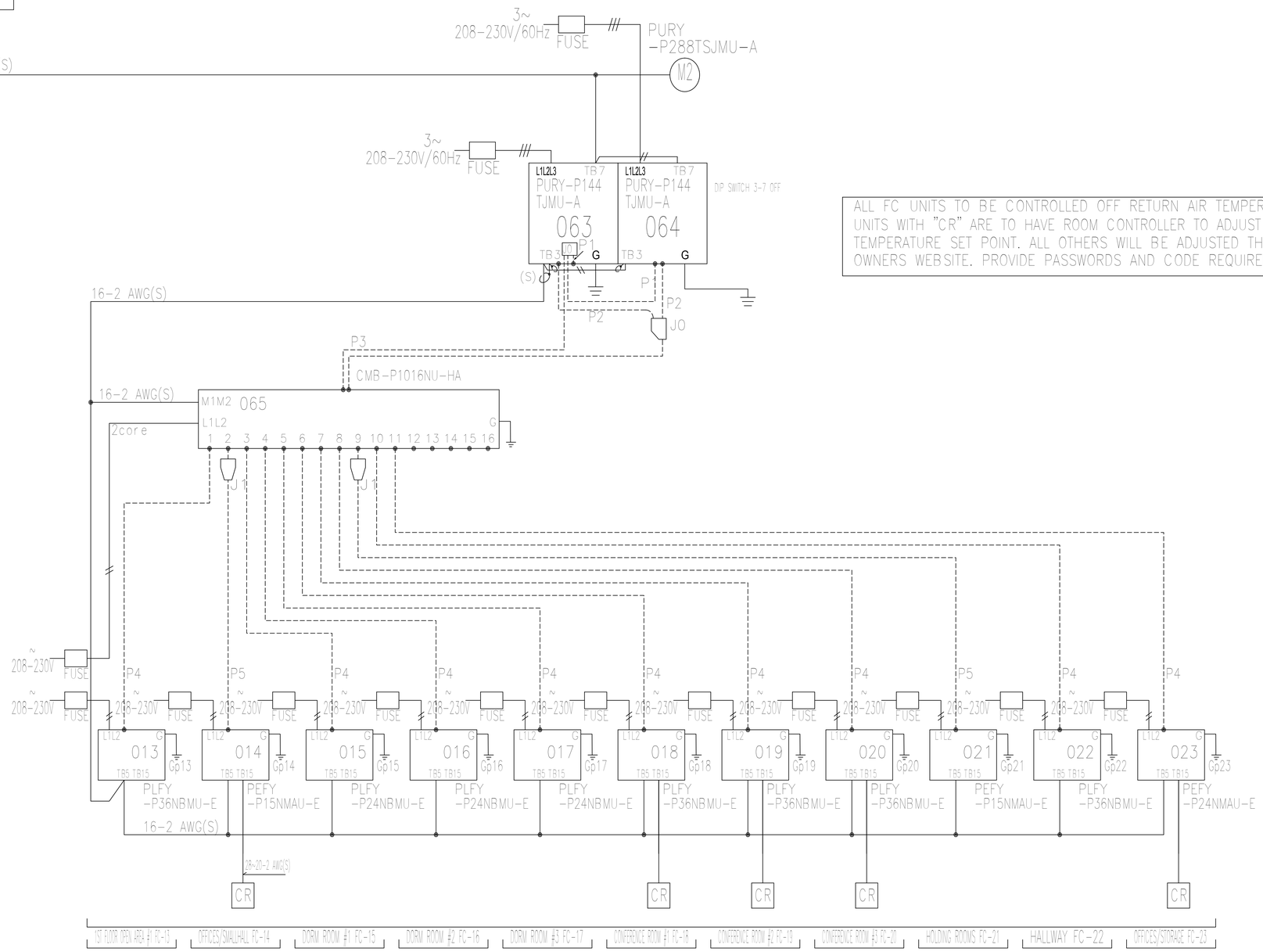
P5	1/4 / 1/2



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MITSUBISHI ELECTRIC CORPORATION

1 SYSTEM 2 BC-2
SCALE: NONE

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MECHANICAL SCHEMATICS

Construction Documents

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CITY MULTI
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DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
—///—	POWER WIRE
———	CONTROL WIRE
- - - - -	REF. PIPE

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J1	Reducer
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	/ 1 1/8
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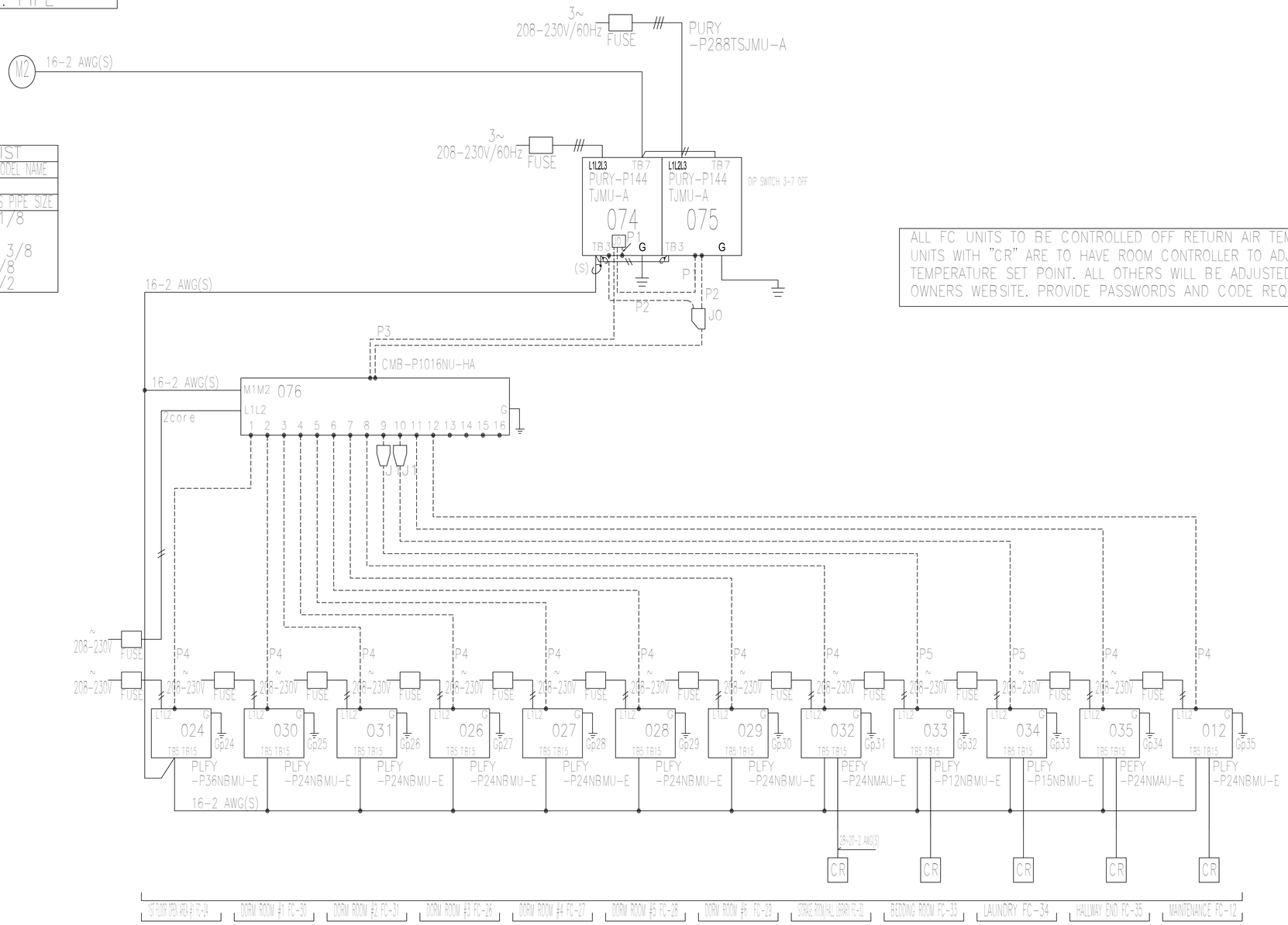
P3	1 1/8 / 1 3/8
P4	3/8 / 5/8
P5	1/4 / 1/2



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MITSUBISHI ELECTRIC CORPORATION

1 SYSTEM 3 BC-3
SCALE: NONE

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Construction Documents

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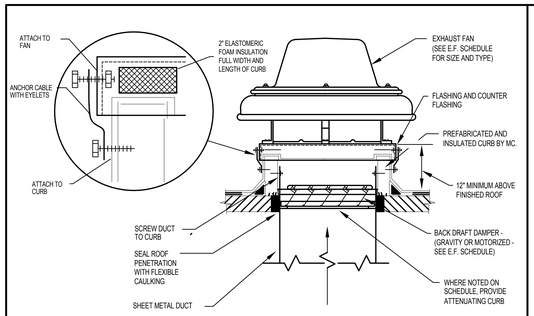
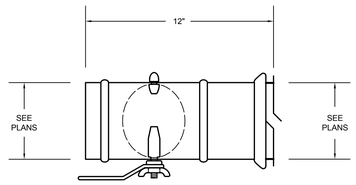
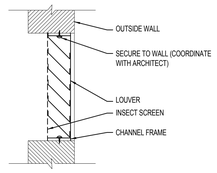


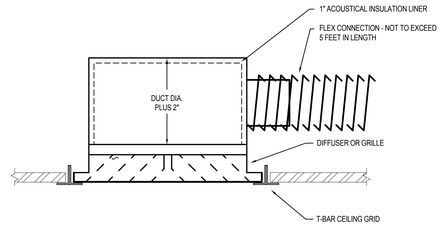
1 EXHAUST FAN AND CURB DETAIL
NO SCALE



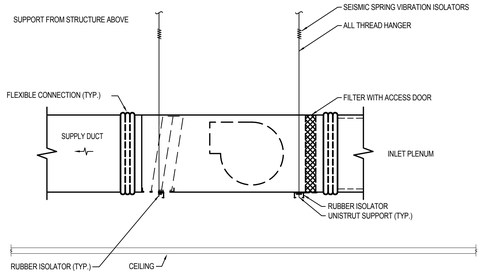
2 TYPICAL MANUAL VOLUME DAMPER DETAIL
NO SCALE



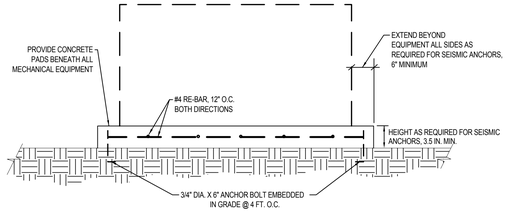
3 LOUVER DETAIL
NO SCALE



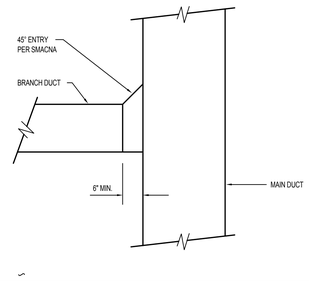
4 DIFFUSER AND GRILLE CONNECTION DETAIL
NO SCALE



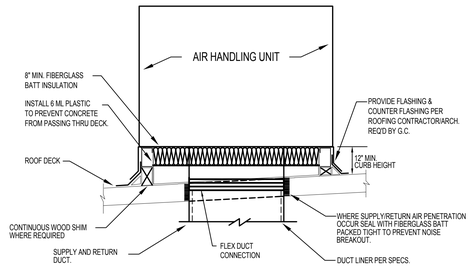
5 FAN COIL INSTALLATION DETAIL
NO SCALE



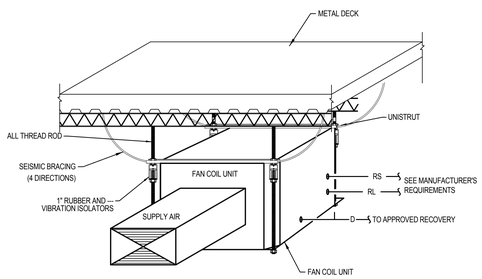
6 HOUSEKEEPING PAD DETAIL
NO SCALE

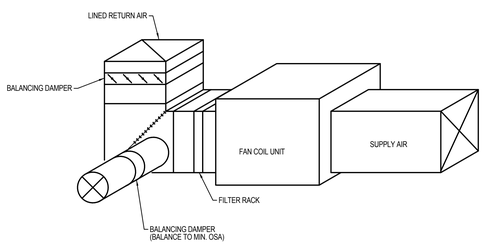


7 TYPICAL DUCT TAKEOFF DETAIL
NO SCALE



8 TYPICAL AIR HANDLING UNIT CURB DETAIL
NO SCALE





12 DUCTED FAN COIL SUPPORT DETAIL
NO SCALE

9
NO SCALE

10
NO SCALE

11
NO SCALE

13
NO SCALE

14
NO SCALE

15
NO SCALE

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Stephen C. Colvin
167524
03/16/2012
Registered Professional Engineer
State of Utah

PAROLE VIOLATOR CENTER

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Salt Lake City, Utah

Division of Facilities Construction and Management

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MECHANICAL DETAILS

Construction Documents

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LOUVER SCHEDULE (L)

PLAN CODE	AREA SERVED	CFM	VELOCITY (FPM)	FREE AREA (SF)	MAX DIMENSIONS (WxH) (IN)	MANUFACTURER & MODEL NO
L-1	OUTSIDE AIR	7500	882	8.18	66 x 36	RUSKIN ELF375DX
L-2	EXHAUST AIR	6500	940	6.91	54 x 36	RUSKIN ELF375DX

EXHAUST FAN SCHEDULE (EF)

PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV.	ESP (@ ELEV.)	FAN RPM	MOTOR		SONES	DAMPER (GRAVITY OR MOTOR)	METHOD OF CONTROL	OPENING SIZE	MAX. OPERATING WT. (LBS.)	MANUFACTURER / MODEL	REMARKS
						H.P.	VOLTAGE & PHASE							
EF-1	KITCHEN GREASE HOOD	ROOF CENTRIF.	4500	1.0	994	1.5	208/3	22	GRAVITY	HOOD SWITCH	25.5 " x 25.5"	350	COOK 225 ACRUB	UPBLAST, PROVIDE DISCONNECT, FACTORY CURB, SPEED CONTROL, BIRDSCREEN
EF-2	KITCHEN DISHWASHER HOOD	ROOF CENTRIF.	600	.75	1900	.25	120/1	12	GRAVITY	INTERLOCK WITH HOOD	13.5" X 13.5"	150	COOK 100 ACRUB	UPBLAST, PROVIDE DISCONNECT, FACTORY CURB, SPEED CONTROL, BIRDSCREEN
EF-3	EXISTING OFFICE RESTROOM / LUNCH	ROOF CENTRIF.	1325	.50	1536	.25	120/1	12	GRAVITY	DDC	15.5" x 15.5"	80	COOK 120 ACEB	PROVIDE DISCONNECT, CURB ADAPTER, SPEED CONTROL, BIRDSCREEN
EF-4	EXISTING OFFICE ELEV. / ELEC. ROOM	ROOF CENTRIF.	870	.50	1900	.25	120/1	13	GRAVITY	DDC	13.5" X 13.5"	70	COOK 100 ACEB	PROVIDE DISCONNECT, CURB ADAPTER, SPEED CONTROL, BIRDSCREEN
EF-5	EXISTING OFFICE UNISEX RR	ROOF CENTRIF.	75	.25	1470	.167	120/1	8	GRAVITY	DDC	13.5" x 13.5"	60	COOK 60 ACEB	PROVIDE DISCONNECT, CURB ADAPTER, SPEED CONTROL, BIRDSCREEN
EF-6	EVIDENCE BOOKIING	ROOF CENTRIF.	220	.50	1642	.167	120/1	10	GRAVITY	CONTINUOUS	13.5" X 13.5"	65	COOK 70 ACEB	PROVIDE DISCONNECT, FACTORY CURB, SPEED CONTROL, BIRDSCREEN
EF-7	EVIDENCE STORAGE	ROOF CENTRIF.	280	.25	1841	.25	120/1	13	GRAVITY	CONTINUOUS	13.5" x 13.5"	65	COOK 70 ACEB	PROVIDE DISCONNECT, FACTORY CURB, SPEED CONTROL, BIRDSCREEN

DDC COMPATIBLE

MAKE UP AIR UNIT SCHEDULE (MAU)

PLAN CODE	CFM @ ELEV	EXTERNAL SP (IN WC)	FAN		HEATING		AIRWASHER							DIMENSION				MANUFACTURER & MODEL NO	REMARKS
			HP	VOLT/ PH	TYPE	OUTPUT MBH	FACE VEL FPM	AIR PD	MEDIA THICKNESS	EAT DB/WB	LAT DB	PUMP HP	PUMP VOLT/ PH	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS.)		
MAU-1	4000 CONSTANT VOLUME	1.0	1.5	208/3	NG	268	500	0.17	12"	80/67	65	.5	120/1	135	59	45	2350	TRANE GRCA40GDAF0	FACTORY CONTROLS, CURB & GAS TRAIN. CONNECT TO HOOD SWITCH. PROVIDE SINGLE POINT ELECTRICAL CONNECTION, MCA-11.5, FACTORY DISCONNECT, CONTROL TO 70° F. DISCHARGE AIR TEMPERATURE (ADJUSTABLE)

ENERGY RECOVERY VENTILATOR (ERV)

PLAN CODE	WINTER		SUMMER		AIRSTREAM	CFM @ ELEV.	S.P. (INWC)	FAN RPM	Bhp (HP)	MOTORS					ELECTRICAL			DIMENSIONS				MANUFACTURER & MODEL NO	REMARKS
	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)						HP	RPM	VOLTS/PH/Hz	ENCLOSURE	MOUNTED	ERV FULL LOAD AMPS	MIN. CIRCUIT AMPS	MOCP	HEIGHT	WIDTH	LENGTH	WEIGHT		
ERV-1	6	45	97	85	SUPPLY	7500	1.5	2100	7.5	10	1725	208/3	ODP	YES	26.0-25.0	58.5	80	80	86	113	3000	RENEWAIRE HE8XIN	FACTORY MOUNTED DISCONNECT, SINGLE POINT ELECTRICAL CONNECTION, FILTER BANK, SPRING VIBRATION ISOLATORS, BACNET DDC COMPATIBLE, UNIT TO OPERATE CONTINUOUS
					EXHAUST	6500	1.5	2100	7.5	10													

EVAPORATIVE COOLER SCHEDULE (EC)

PLAN CODE	SYSTEM SERVED	CFM (ALT)	EAT DB/ WB (°F)	LAT DB/ WB (°F)	FAN			% SATURATION EFF	WATER PUMP			MAX OVERALL DIMENSIONS LxWxH (IN)	MAX OPERATING WEIGHT (LBS)	MANUFACUTER & MODEL NO	REMARKS
					TYPE	HP	VOLT/ PH		GPM	HP	VOLT/ PH				
EC-1	GYM	9000 -11000	97/62	75/68	BELT	2	208/3	80	7.5	3/4	120/1	50x50x53	650	CHAMPION 10/12 DD	PROVIDE CURB ADAPTER

RELIEF VENT SCHEDULE (RV)

PLAN CODE	SERVICE FUNCTION	CFM (ALT.)	PRESSURE DROP (IN WC.)	THROAT L X W	MAX. SIZE L X H X W	MAX. WEIGHT (LBS)	MANUFACTURER & MODEL NO.	REMARKS
RV-1	EC-1 RELIEF	12,000	0.03	26" x 26"	36" X 24" X 36"	250	RUSKIN PMH	PROVIDE ROOF CURB ADAPTER

ELECTRIC RADIANT CEILING PANEL SCHEDULE (RCP)

PLAN CODE	INPUT BTUH	LOCATION	WATTS	ELECTRICAL		DIMENSIONS L X W (IN)	MAX. OPERATING WEIGHT (LBS.)	MANUFACTURER & MODEL NO.	REMARKS
				VOLT/PH	AMPS				
RCP-1	1200	GYP CEILING	375	115/1	4	24 X 24	200	AZTEC CP3751	(1)

(1) PROVIDE LINE VOLTAGE THERMOSTAT.

AIR DEVICE SCHEDULE

PLAN CODE — GRILLE CFM

PLAN CODE	TYPE & DUTY	FACE SIZE	NECK SIZE	CEILING TYPE (2)	MAX CFM	MAX TP (IN WC)	NC LEVEL MAX	MIN THROW (FT) (T50)	4-WAY MIN THROW (T50)	2-WAY MIN THROW (T50)	MANUFACTURER & MODEL NO	REMARKS
9	PERFORATED RETURN	24" X 24"	22" X 22"	MATCH CEILING	1200	0.05	17	-	-	-	TITUS PAR	-
10	PERFORATED RETURN	24" X 12"	22"X 10"	MATCH CEILING	600	0.06	10	-	-	-	TITUS PAR	-
13	PERFORATED EXHAUST GRILLE	8" X 8"	6" X 6"	MATCH CEILING	120	0.12	10	-	-	-	TITUS 8F	-
14	PERFORATED EXHAUST GRILLE	10" X 10"	8" X 8"	MATCH CEILING	225	0.12	12	-	-	-	TITUS 8F	-
16	PERFORATED EXHAUST GRILLE	14" x 14"	12" X 12"	MATCH CEILING	550	0.12	16	-	-	-	TITUS 8F	-
21	RADIAL BLADE DIFFUSER	12"□	8"□	SURFACE	210	0.14	29	8 (1)	-	-	AIR DIFFUSION PRODUCTS DNR	-
22	RADIAL BLADE DIFFUSER	15"□	10"□	SURFACE	330	0.14	29	10 (1)	-	-	AIR DIFFUSION PRODUCTS DNR	-
26	RADIAL BLADE DIFFUSER	24" X 24"	8"□	GRID	210	0.14	29	8 (1)	-	-	AIR DIFFUSION PRODUCTS DNR	-
27	RADIAL BLADE DIFFUSER	24" X 24"	10"□	GRID	330	0.14	29	10 (1)	-	-	AIR DIFFUSION PRODUCTS DNR	-
31	ADJUSTABLE LOUVERED	24" X 24"	6"□	MATCH CEILING	170	0.13	25	ADJUSTABLE	11	18	TITUS TDCA	18" x 18" CORE
32	ADJUSTABLE LOUVERED	24" X 24"	8"□	MATCH CEILING	310	0.13	27	ADJUSTABLE	14	24	TITUS TDCA	18" x 18" CORE
33	ADJUSTABLE LOUVERED	24" X 24"	10"□	MATCH CEILING	440	0.13	28	ADJUSTABLE	17	26	TITUS TDCA	18" x 18" CORE
36	ADJUSTABLE LOUVERED	24" X 24"	16"□	MATCH CEILING	950	0.11	29	ADJUSTABLE	26	41	TITUS TDCA	18" x 18" CORE
50	SECURITY GRILLE	8" X 8"	6" X 6"	MATCH CEILING	100	0.079	19	10	-	-	KRUEGER 1310	-

(1) RECOMMENDED MINIMUM DISTANCE BETWEEN DIFFUSERS IN 9' CEILING.
(2) VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING.

(SINGLE ZONE) ROOF TOP UNIT SCHEDULE (RTU)

PLAN CODE	AREA SERVED	NOMINAL TONS	MIN. SEER	MIN OA (CFM)	SUPPLY FAN			COOLING					HEATING CAPACITY					COMPRESSORS	ELECTRICAL			MAX OPERATING WT (LBS)	MAX DIMENSIONS			MANUFACTURER & MODEL NO	REMARKS
					QUANTITY	CFM (ALT)	ESP (IN WC)	TOTAL MBH	SENS MBH	EAT (DB/ WB)	OA (DB °F)	LAT (°F)	INPUT (MBH)	OUTPUT (MBH)	LAT (°F)	STAGES	OA (DB °F)	NO	VOLT/ PH	MCA AMPS	MOCP		LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
RTU-1	EXISTING OFFICE	3	13	140	1	1290	1	34	32.94	82/60	95	58.8	100	80	117	1	6	1	208/3	23.3	30	730	70	44	36	TRANE YHC037	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-2	EXISTING OFFICE	4	13	300	1	1630	1	48.1	46.9	82/60	95	57.8	80	64	97	1	6	1	208/3	29.4	40	950	88	53	41	TRANE YHC047	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-3	EXISTING OFFICE	4	13	160	1	1600	1	47	44.6	82/60	95	56.7	80	64	97	1	6	1	208/3	29.4	40	950	88	53	41	TRANE YHC047	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-4	EXISTING OFFICE	4	13	140	1	1600	1	46	42.6	82/60	95	55.8	80	64	97	1	6	1	208/3	29.4	40	950	88	53	41	TRANE YHC047	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-5	EXISTING OFFICE	3	13	260	1	960	1	32	30.9	82/60	95	54.8	80	64	121	1	6	1	208/3	23.3	30	750	70	44	36	TRANE YHC037	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-6	EXISTING OFFICE	3	13	200	1	1200	1	33.7	32.8	82/60	95	58.1	80	64	109	1	6	1	208/3	23.3	30	750	70	44	36	TRANE YHC037	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-7	EXISTING OFFICE	8.5	13	2200	1	3000	1	100.9	100.1	90/62	95	59.6	200	160	109	2	6	2	208/3	44.7	60	1595	100	63	52	TRANE YHC102	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT, SMOKE DETECTOR
RTU-8	EXISTING OFFICE	3	13	80	1	1200	1	33.7	32.8	82/60	95	58.1	80	64	109	1	6	1	208/3	23.3	30	750	70	44	36	TRANE YHC037	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-9	EXISTING OFFICE	4	13	80	1	1670	1	47.2	45.5	82/60	95	57.2	80	64	95	1	6	1	208/3	29.4	40	950	88	53	41	TRANE YHC047	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-10	EXISTING OFFICE	4	13	80	1	1600	1	47.4	45.6	82/60	95	57.1	80	64	97	1	6	1	208/3	29.4	40	950	88	53	41	TRANE YHC047	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-11	EXISTING OFFICE	3	13	500	1	1200	1	36.5	36.1	82/60	95	60	80	64	109	1	6	1	208/3	23.3	30	750	70	44	36	TRANE YHC037	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-12	EXISTING OFFICE	3	13	80	1	1000	1	31.8	30	82/60	95	55	60	48	104	1	6	1	208/3	23.3	30	750	70	44	36	TRANE YHC037	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT
RTU-13	EXISTING OFFICE	6	13	80	1	2570	1	68.8	68.2	82/60	95	59	80	64	95	1	6	1	208/3	33.9	50	1070	88	53	46	TRANE YHC072	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT, SMOKE DETECTOR
RTU-14	EXISTING OFFICE	3	13	280	1	1000	1	31.8	30	82/60	95	55	80	64	119	1	6	1	208/3	23.3	30	950	70	44	36	TRANE YHC037	DDC COMPATIBLE, ADAPTER CURB, FACTORY DISCONNECT

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PAROLE VIOLATOR CENTER

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Division of Facilities Construction and Management

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MECHANICAL SCHEDULES

Construction Documents

MH-601

VARIABLE REFRIGERANT HEAT PUMP SCHEDULE (HP)

PLAN CODE	SOUND	COMPRESSOR	COMPRESSOR #	FAN		COOLING CAPACITY			HEATING CAPACITY			DIMENSIONS H X W X L	ELECTRICAL			REFRIGERANT	REFRIGERANT (LB)	PIPING CONNECTIONS			OUTDOOR UNITS #	MAX INDOOR UNITS	MANUFACTURER & MODEL NO.	MAX. WEIGHT	REMARKS
				TYPE	CFM	TOTAL BTUih	EER	POWER kW	TOTAL BTUih	COP	POWER kW		VOLTAGE/PHASE	MCA	MFS			LIQUID PIPES	SUCTION GAS	GAS PIPES					
HP-1	60	DC SCROLL	4	PROP.	13,400	228,300	3.11	21.60	258,000	3.41	22.20	50.4 X 63.3 X 28.7	208/3	118	180	R410A	17.6	5.6	5/8	1 3/8	2	38	MITSUBISHI PURY-P288TSJMU-A	628	-
HP-2	60	DC SCROLL	4	PROP.	13,400	228,300	3.11	21.60	258,000	3.41	22.20	50.4 X 63.3 X 28.7	208/3	118	180	R410A	17.6	5.6	5/8	1 3/8	2	38	MITSUBISHI PURY-P288TSJMU-A	628	-
HP-3	60	DC SCROLL	4	PROP.	13,400	228,300	3.11	21.60	258,000	3.41	22.20	50.4 X 63.3 X 28.7	208/3	118	180	R410A	17.6	5.6	5/8	1 3/8	2	38	MITSUBISHI PURY-P288TSJMU-A	628	-

DDC COMPATIBLE

BC CONTROLLER SCHEDULE (BC)

PLAN CODE	AREA SERVED	COOLING kW	HEATING kW	MAX INDOOR UNITS	VOLTAGE & PHASE	PIPING CONNECTIONS				MAX. DIMENSIONS				MANUFACTURER MODEL	REMARKS
						INDOOR LIQUID	INDOOR GAS	UNIT LOW PRESSURE	UNIT HIGH PRESSURE	WEIGHT (LBS)	DEPTH (IN)	WIDTH (IN)	HEIGHT (IN)		
BC-1	1	217	106	18	208/230 1 PH	3/8	5/8	1 1/8	7/8	162	20	44	12	MITSUBISHI CMB-P1016NU-HA	WITH CONDENSATE PUMP AND BACKFLOW PREVENTER
BC-2	2	217	106	21	208/230 1 PH	3/8	5/8	1 1/8	7/8	162	20	44	12	MITSUBISHI CMB-P1016NU-HA	WITH CONDENSATE PUMP AND BACKFLOW PREVENTER
BC-3	3	217	106	21	208/230 1 PH	3/8	5/8	1 1/8	7/8	162	20	44	12	MITSUBISHI CMB-P1016NU-HA	WITH CONDENSATE PUMP AND BACKFLOW PREVENTER

DDC COMPATIBLE

DX COOLING-ONLY FAN COIL UNIT (DXFC)

PLAN CODE	SYSTEM SERVED	CFM (ALT)	MIN. OUTSIDE AIR	CAPACITY		AIR SIDE		REFRIGERANT TYPE	SIZE (IN)				ELECTRICAL (1)			MANUFACTURER & MODEL NO	REMARKS
				SENS MBH	TOTAL MBH	EAT (°F) DB/WB	LAT (°F) DB/WB		LENGTH	WIDTH	HEIGHT	OPERATING WT (LBS)	VOLTAGE/ PHASE	MCA	MOCP		
DXFC-1	CONTROL ROOM	800	180	19.2	24	80/62	53.8/53	R-410A	27	27	10	82	208/230 1	1	15	MITSUBISHI PCA-A24GA	CEILING INSTALLATION OVERHEAD. PROVIDE WITH FACTORY MOUNTED STARTER, DISCONNECT, AND SINGLE POINT ELECTRICAL CONNECTION
DXFC-2	CONTROL ROOM	800	180	19.2	24	80/62	53.8/53	R-410A	27	27	10	82	208/230 1	1	15	MITSUBISHI PCA-A24GA	CEILING INSTALLATION OVERHEAD. PROVIDE WITH FACTORY MOUNTED STARTER, DISCONNECT, AND SINGLE POINT ELECTRICAL CONNECTION
DXFC-3	COMM ROOM	800	NA	19.2	24	80/62	53.8/53	R-410A	27	27	10	82	208/230 1	1	15	MITSUBISHI PCA-A24GA	CEILING INSTALLATION OVERHEAD. PROVIDE WITH FACTORY MOUNTED STARTER, DISCONNECT, AND SINGLE POINT ELECTRICAL CONNECTION
DXFC-4	COMM ROOM EXISTING OFFICE BUILDING	800	NA	19.2	24	80/62	53.8/53	R-410A	27	27	10	82	208/230 1	1	15	MITSUBISHI PCA-A24GA	CEILING INSTALLATION OVERHEAD. PROVIDE WITH FACTORY MOUNTED STARTER, DISCONNECT, AND SINGLE POINT ELECTRICAL CONNECTION

(1) PROVIDE EMERGENCY POWER
DDC COMPATIBLE

AIR COOLED CONDENSING UNIT SCHEDULE (ACCU)

PLAN CODE	SYSTEM SERVED	NET COOLING MBH	AMBIENT TEMP (°F)	REFRIGERANT TYPE	ELECTRICAL (1)		ARI MIN SEER/EER	MANUFACTURER & MODEL NO	DIMENSIONS				REMARKS
					VOLTAGE/ PHASE	MCA	MOCP						
									LENGTH	WIDTH	HEIGHT	OPERATING WEIGHT (LBS)	
ACCU-1	CONTROL ROOM DXFC-1	24	105	R-410A	208/230 1	26	30	13.8	MITSUBISHI PUY-A24NHA	14	38	36	265	INCLUDE LOW AMBIENT KIT, UNIT INSTALLED WITH DX FAN COIL/EVAPORATOR AT LOW POINT
ACCU-2	CONTROL ROOM DXFC-2	24	105	R-410A	208/230 1	26	30	13.8	MITSUBISHI PUY-A24NHA	14	38	36	265	INCLUDE LOW AMBIENT KIT, UNIT INSTALLED WITH DX FAN COIL/EVAPORATOR AT LOW POINT
ACCU-3	COMM ROOM DXFC-3	24	105	R-410A	208/230 1	26	30	13.8	MITSUBISHI PUY-A24NHA	14	38	36	265	INCLUDE LOW AMBIENT KIT, UNIT INSTALLED WITH DX FAN COIL/EVAPORATOR AT LOW POINT
ACCU-4	COMM ROOM EXISTING OFFICE BUILDING DXFC-4	24	105	R-410A	208/230 1	26	30	13.8	MITSUBISHI PUY-A24NHA	14	38	36	265	INCLUDE LOW AMBIENT KIT, UNIT INSTALLED WITH DX FAN COIL/EVAPORATOR AT LOW POINT

(1) PROVIDE EMERGENCY POWER
DDC COMPATIBLE

VRV FAN COIL UNIT SCHEDULE (FC)

PLAN CODE	SUPPLY AIR FLOW CFM	OUTSIDE AIR AIR FLOW CFM	SOUND LEVEL dBA	VOLT/PH	FLA	SENSIBLE COOLING BTU/HR	HEATING BTU/HR	PIPE CONNECTIONS			MAX. DIMENSIONS				MANUFACTURER & MODEL NO	NOTES/ACCESSORIES
								LIQUID	GAS	DRAIN	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WT. (LBS.)		
FC-1	1200	300	34	208/230/1	0.68	21066	23324	3/8	5/8	1 1/4	33	33	10.5	53	MITSUBISHI PLFY-P36NBMU-E	WITH CONDENSATE PUMP AND BACKFLOW PREVENTER, SEE SCHEMATICS FOR CONTROLS
FC-2	1200	300	34	208/230/1	0.68	21066	23324	3/8	5/8	1 1/4	33	33	10.5	53	MITSUBISHI PLFY-P36NBMU-E	
FC-3	800	270	36	208/230/1	0.68	13999	15744	1/4	1/2	1 1/4	29	28	12	57	MITSUBISHI PLFY-P24NBMU-E	
FC-4	800	270	39	208/230/1	0.20	13999	15744	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P24NBMU-E	
FC-5	800	270	39	208/230/1	0.96	13999	15744	3/8	5/8	1 1/4	29	46	12	115	MITSUBISHI PLFY-P24NBMU-E	
FC-6	800	270	41	208/230/1	0.68	13999	15744	1/4	1/2	1 1/4	33	33	10.5	49	MITSUBISHI PLFY-P24NBMU-E	
FC-7	800	270	36	208/230/1	0.40	13999	15744	1/4	5/8	1 1/4	22	32	9	38	MITSUBISHI PLFY-P24NBMU-E	
FC-8	800	270	36	208/230/1	0.40	13999	15744	1/4	1/2	1 1/4	22	32	9	38	MITSUBISHI PLFY-P24NBMU-E	
FC-9	800	270	30	208/230/1	0.68	13999	15744	3/8	5/8	1 1/4	33	33	10.5	49	MITSUBISHI PLFY-P24NBMU-E	
FC-10	800	270	39	208/230/1	0.20	13999	15744	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P24NBMU-E	
FC-11	800	270	39	208/230/1	0.20	13999	15744	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P24NBMU-E	
FC-12	800	40	33	208/230/1	0.68	13999	15744	3/8	5/8	1 1/4	33	33	11.7	53	MITSUBISHI PLFY-P24NBMU-E	
FC-13	1200	300	36	208/230/1	0.40	21066	23324	1/4	5/8	1 1/4	22	32	9	38	MITSUBISHI PLFY-P36NBMU-E	
FC-14	600	NA	39	208/230/1	1.06	10205	9913	1/4	1/2	1 1/4	36	30	15	98	MITSUBISHI PEFY-P15NMAU-E	
FC-15	800	270	36	208/230/1	0.40	13999	15744	1/4	1/2	1 1/4	22	32	9	38	MITSUBISHI PLFY-P24NBMU-E	
FC-16	800	270	36	208/230/1	0.40	13999	15744	1/4	1/2	1 1/4	22	32	9	38	MITSUBISHI PLFY-P24NBMU-E	
FC-17	800	270	42	208/230/1	1.19	13999	15744	3/8	5/8	1 1/4	29	46	12	86	MITSUBISHI PLFY-P24NBMU-E	
FC-18	1200	300	36	208/230/1	0.40	21066	23324	1/4	1/2	1 1/4	22	32	9	38	MITSUBISHI PLFY-P36NBMU-E	
FC-19	1200	300	41	208/230/1	0.68	21066	23324	1/4	1/2	1 1/4	33	33	10.5	49	MITSUBISHI PLFY-P36NBMU-E	
FC-20	1200	300	39	208/230/1	0.20	21066	23324	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P36NBMU-E	
FC-21	600	120	36	208/230/1	0.40	10205	9913	1/4	1/2	1 1/4	22	32	9	38	MITSUBISHI PEFY-P15NMAU-E	
FC-22	1200	80	41	208/230/1	0.68	21066	23324	1/4	1/2	1 1/4	33	33	10.5	49	MITSUBISHI PLFY-P36NBMU-E	
FC-23	600	100	39	208/230/1	0.85	13999	15744	1/4	1/2	1 1/4	29	38	12	75	MITSUBISHI PLFY-P24NBMU-E	
FC-24	1200	300	41	208/230/1	0.68	21066	23324	1/4	1/2	1 1/4	33	33	10.5	49	MITSUBISHI PLFY-P36NBMU-E	
FC-25	800	NA	39	208/230/1	0.20	13999	15744	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PEFY-P24NMAU-E	
FC-26	800	270	39	208/230/1	0.85	13999	15744	1/4	1/2	1 1/4	29	38	12	75	MITSUBISHI PLFY-P24NBMU-E	
FC-27	800	270	39	208/230/1	0.20	13999	15744	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P24NBMU-E	
FC-28	800	270	41	208/230/1	1.3	13999	15744	3/8	5/8	1 1/4	33	33	11.7	66	MITSUBISHI PLFY-P24NBMU-E	
FC-29	800	270	41	208/230/1	0.68	13999	15744	1/4	1/2	1 1/4	33	33	10.5	49	MITSUBISHI PLFY-P24NBMU-E	
FC-30	800	270	39	208/230/1	0.20	13999	15744	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P24NBMU-E	
FC-31	800	270	36	208/230/1	0.40	13999	15744	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P24NBMU-E	
FC-32	600	NA	39	208/230/1	0.85	13999	15744	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P24NBMU-E	
FC-33	600	NA	39	208/230/1	0.20	10205	9913	1/4	1/2	1 1/4	32	16	10	38	MITSUBISHI PLFY-P15NBMU-E	
FC-34	600	NA	36	208/230/1	0.40	10205	9913	1/4	1/2	1 1/4	22	32	9	38	MITSUBISHI PLFY-P15NBMU-E	

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PAROLE VIOLATOR CENTER

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Salt Lake City, Utah

Division of Facilities Construction and Management

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MECHANICAL SCHEDULES

Construction Documents

MH-602

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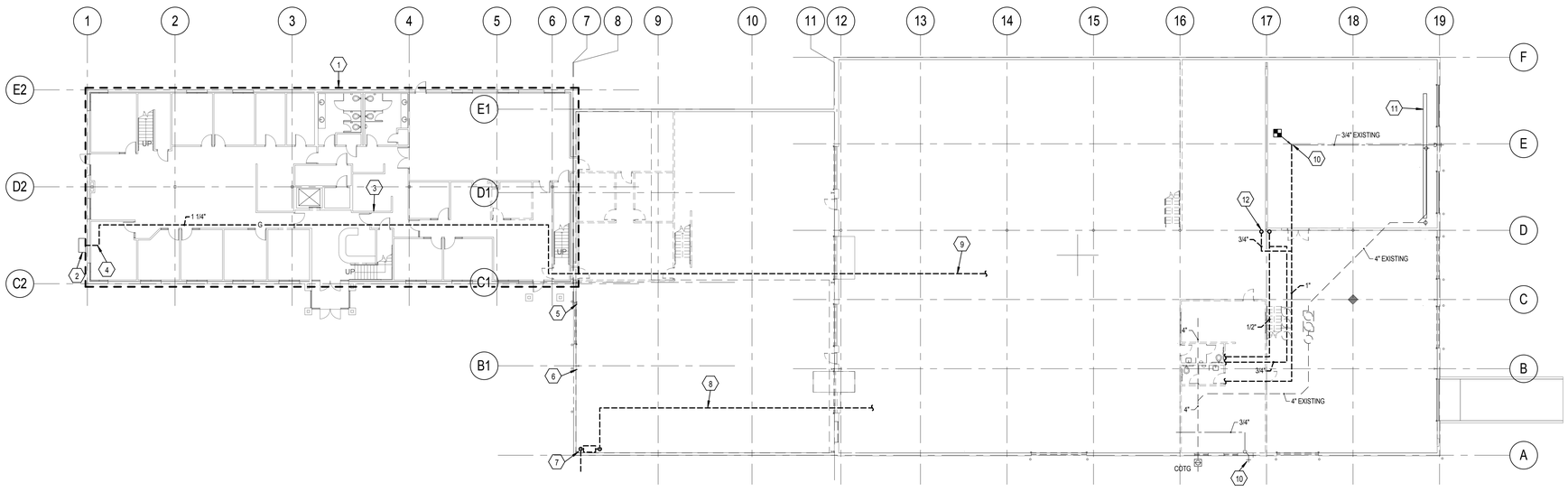
REVISIONS:

KEYED NOTES

1. PLUMBING IN THIS AREA TO REMAIN UNLESS OTHERSIZE NOTED.
2. EXISTING NATURAL GAS METER TO REMAIN.
3. REMOVE INSTAHOT WATER UNIT, INCLUDING FAUCET, AND CAP SINK HOLE.
4. REMOVE GAS PIPING FROM METER AND THROUGH EXISTING OFFICE BUILDING. 1 1/4" EXISTING NATURAL GAS PIPING UP TO ROOF TOP UNITS TO REMAIN.
5. REMOVE EVAP. COOLER WATER SUPPLY AND DRAIN AND CAP WATER SUPPLY BACK TO MAIN PIPING.
6. DOMESTIC COLD WATER PIPING SERVING EXISTING OFFICE BUILDING TO REMAIN.
7. REMOVE EXISTING PRV. SEE NEW PLUMBING DRAWINGS FOR INSTALLATION OF NEW DOMESTIC WATER SUPPLY.
8. REMOVE DOMESTIC WATER SUPPLY PIPING THROUGH WAREHOUSE.
9. REMOVE NATUAL GAS PIPING THROUGH WAREHOUSE.
10. COLD WATER SUPPLY TO EXTERIOR SILL COCKS TO REMAIN BACK TO MAIN PIPING.
11. TRENCH DRAIN TO REMAIN.
12. REMOVE WATER, WASTE AND VENT STUBOUTS. CAP WASTE AT THE FLOOR. CAP VENT AND WATER PIPING BACK TO MAINS. REMOVE ALL UNUSED PIPING.

GENERAL NOTES

A. ALL EXISTING SHOWN LIGHT AND SOLID TO REMAIN, ALL ITEMS SHOWN DARK AND DASHED TO BE REMOVED.



1 LEVEL 1 - PLUMBING DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

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NORTH

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PLUMBING DEMOLITION FLOOR PLAN - LEVEL 1

Construction Documents

PD-111

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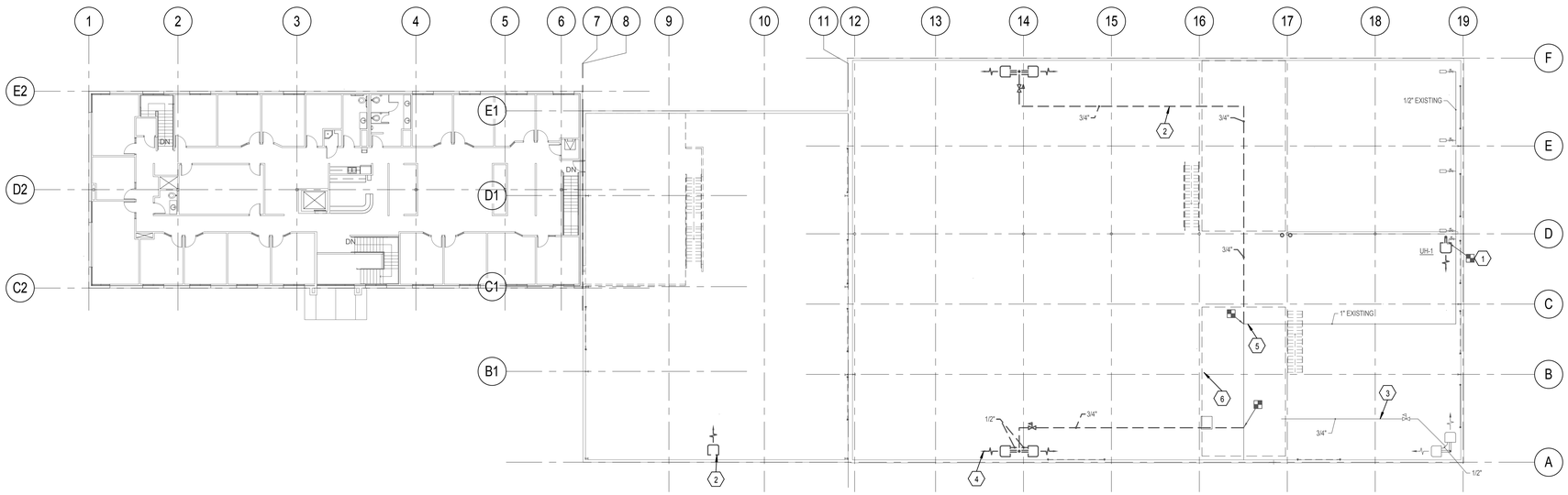
REVISIONS:

KEYED NOTES

1. CAP NATURAL GAS PIPING SERVING UNIT HEATER.
2. REMOVE ALL GAS PIPING TO UNIT BEING REMOVED.
3. NATURAL GAS PIPING TO EXISTING UNIT HEATERS TO REMAIN.
4. EVAP. COOLER WATER SUPPLY AND DRAIN TO REMAIN.
5. NATURAL GAS PIPING TO EXISTING RADIANT HEATERS TO REMAIN.
6. REMOVE WATER HEATER AND ALL ASSOCATED WATER PIPING AND GAS PIPING BACK TO MAINS.



1 LEVEL 2 - PLUMBING DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

GENERAL NOTES

A. ALL EXISTING SHOWN LIGHT AND SOLID TO REMAIN, ALL ITEMS SHOWN DARK AND DASHED TO BE REMOVED.

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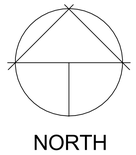
PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management



NORTH

DRAWN BY:	TCF
CHECKED BY:	BRC
OWNER PROJECT NO.:	
CEA PROJECT NO.:	2011-098.00
ISSUED DATE:	03/16/2012

PLUMBING DEMOLITION FLOOR PLAN - LEVEL 2

Construction Documents

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PD-121

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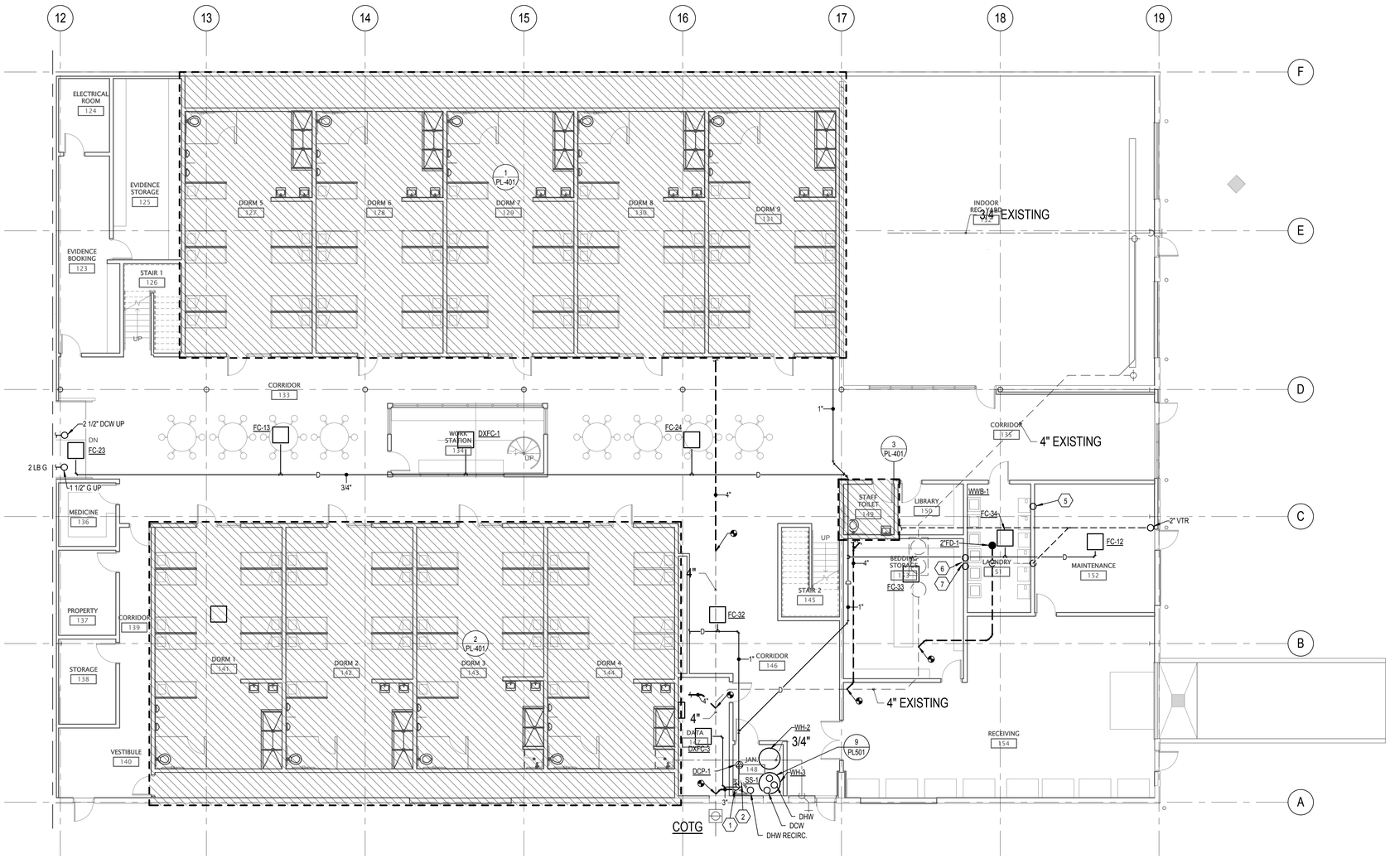
REVISIONS:

GENERAL NOTES

A. SEE GAS PIPING SCHEMATIC ON SHEET PL-601.

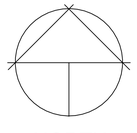
KEYED NOTES

1. 3/4" CONDENSATE DRAIN FROM AC UNIT. TERMINATE IN SERVICE SINK WITH AIR GAP.
2. TERMINATE CONDENSATE DRAINS FROM FC IN SERVICE SINK WITH AIR GAP.
3. CONNECT NEW 3/4" GAS PIPING AT THIS APPROX. LOCATION TO EXISTING GAS PIPE SERVING UNIT HEATERS.
4. CONNECT NEW 1" GAS PIPING AT THIS APPROX. LOCATION TO EXISTING GAS PIPE SERVING UNIT HEATERS.
5. ROUTE 1" NATURAL GAS PIPE IN WALL. PROVIDE 1/2" STUBOUT FOR EACH DRYER WITH SHUT OFF VALVE AND CAP FOR FUTURE CONNECTION.
6. 1" HOT AND 1" COLD WATER UP AND CONNET TO MAIN PIPES.
7. ROUTE HOT AND COLD WATER TO WASHER WALL BOX (TYP. 6). PROVIDE SHOCK ARRESTERS ON MAIN HOT AND COLD WATER PIPES. CONNECT NEW WASTE PIPING TO EXISTING UNDERGROUND.



1 LEVEL 1 - AREA A - PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'



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PLUMBING FLOOR PLAN - LEVEL 1 AREA "A"

Construction Documents

PL-111A

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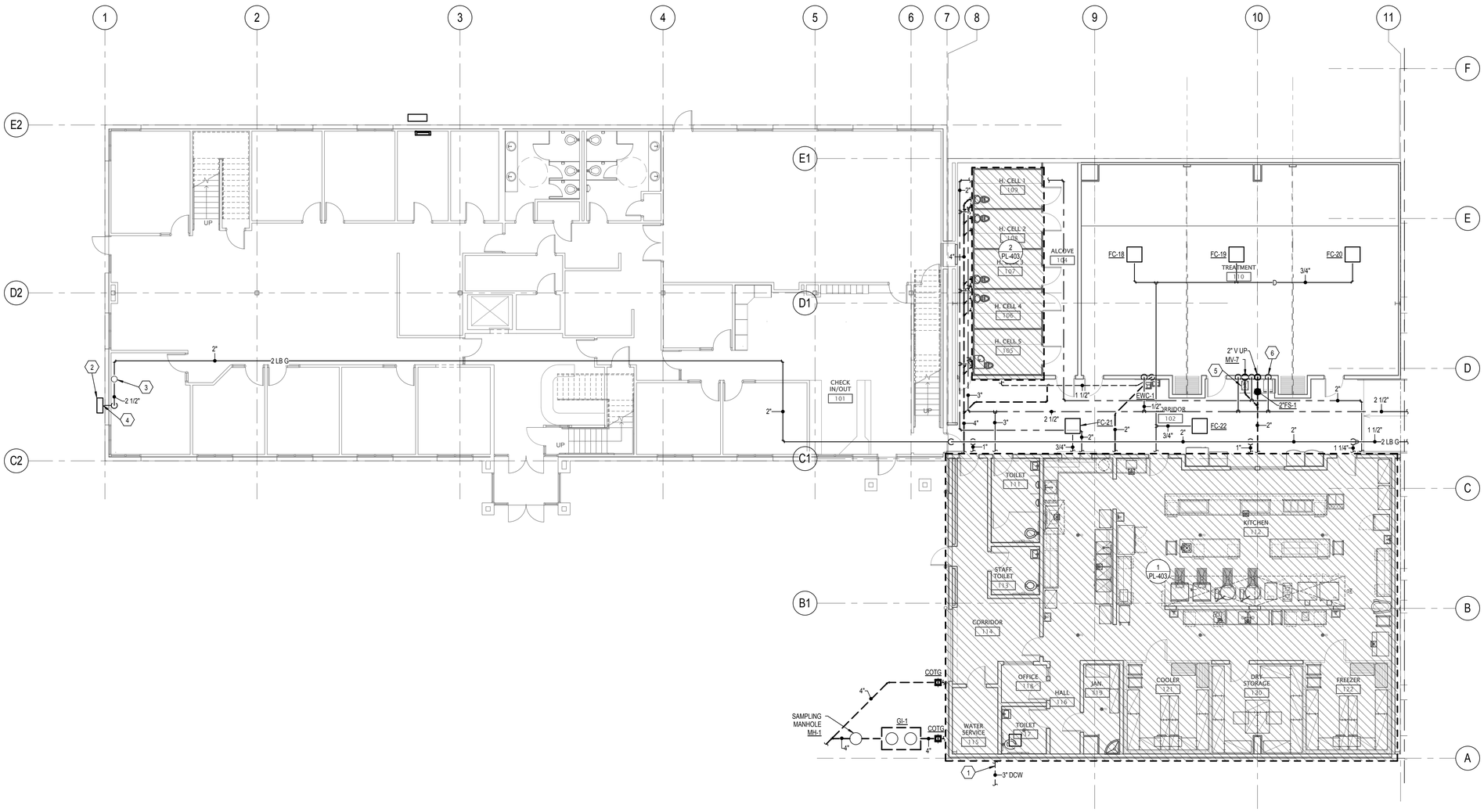
REVISIONS:

GENERAL NOTES

A. SEE GAS PIPING SCHEMATIC ON SHEET PL-601
B. SEE FOOD SERVICE DRAWINGS FOR LOCATIONS AND CONNECTION REQUIREMENTS.

KEYED NOTES

1. NEW 3" COLD WATER SERVICE AND PRV. ROUTE PIPING 5'-0" OUTSIDE BUILDING. COORDINATE LOCATION WITH CIVIL DRAWINGS.
2. EXISTING 5 LB. GAS METER TO REMAIN.
3. CONNECT EXISTING 1 1/4" GAS UP TO ROOF TOP UNITS TO NEW 2 1/2" GAS PIPE.
4. CONNECT NEW 2 1/2" GAS PIPE TO EXISTING METER AND ROUTE UP ABOVE CEILING.
5. UTILTIY SINK SUPPLIED BY FOOD SERVICE SUPPLIER. MAKE ALL FINAL CONNECTIONS.
6. ROUTE COLD WATER TO ICE MAKER. INSTALL FOOD SERVICE SUPPLIED FILTER. PROVIDE BACKFLOW PREVENTER. ROUTE WASTE TO FLOOR SINK.



1 LEVEL 1 - AREA B - PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"
6' 0' 4' 8' 12' 16'

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PLUMBING FLOOR PLAN - LEVEL 1 AREA "B"

Construction Documents

PL-111B

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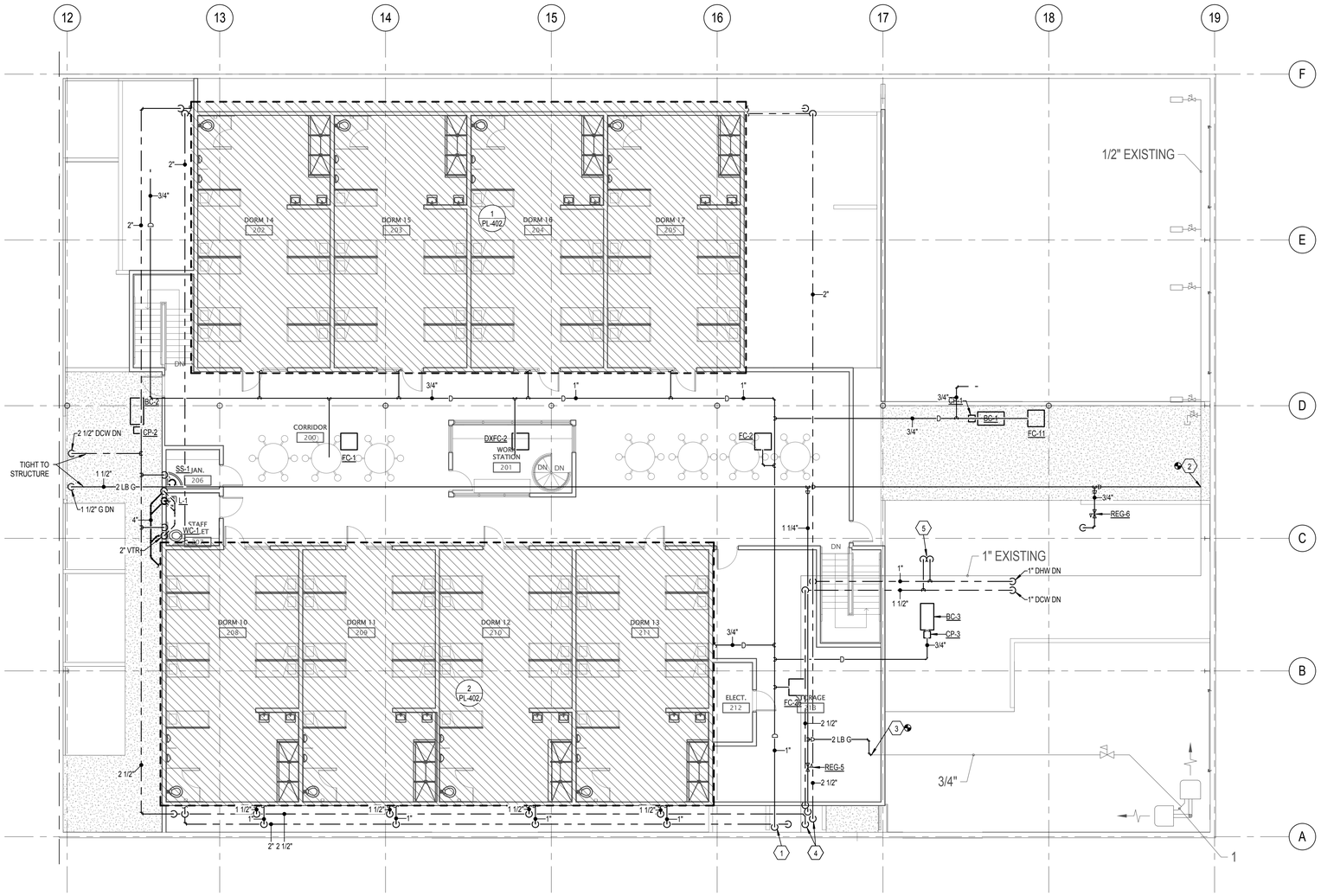
REVISIONS:

GENERAL NOTES

A. SEE GAS PIPING SCHEMATIC ON SHEET PL-601.

KEYED NOTES

1. ROUTE CONDENSATE DRAIN DOWN TO JANOTORS SINK ON LEVEL 1. TERMINATE DRAIN IN JANITORS SINK WITH AIR GAP.
2. CONNECT NEW 1" GAS PIPING AT THIS APPROX. LOCATION TO EXISTING GAS PIPE SERVING UNIT HEATERS.
3. CONNECT NEW 3/4" GAS PIPING AT THIS APPROX. LOCATION TO EXISTING GAS PIPE SERVING UNIT HEATERS.
4. ROUTE HOT AND COLD WATER DOWN TO WATER HEATERS.
5. 1" HOT AND 1/2" COLD WATER DOWN TO RESTROOM.



1 LEVEL 2 - AREA A - PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"

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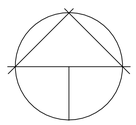

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PLUMBING FLOOR PLAN - LEVEL 2 AREA "A"

Construction Documents

PL-121A

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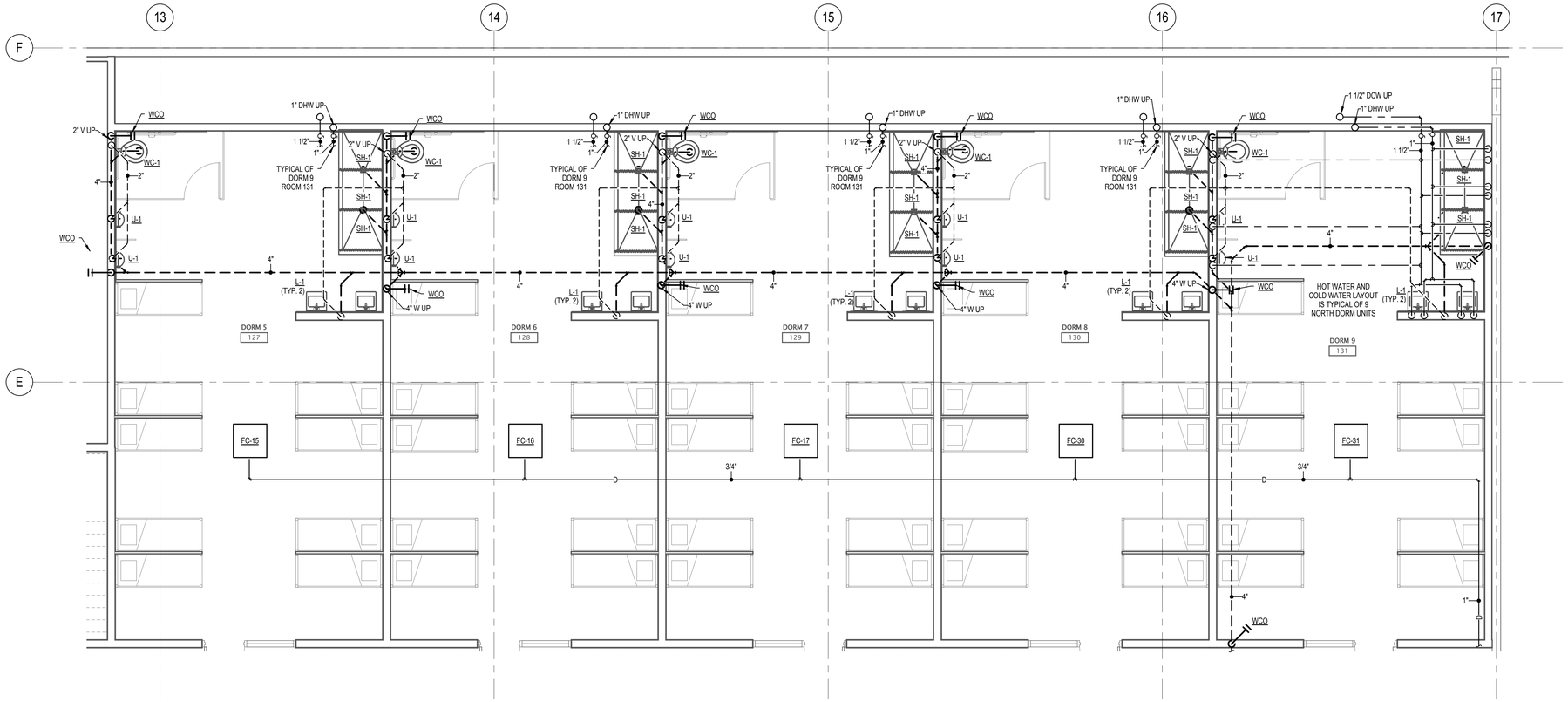
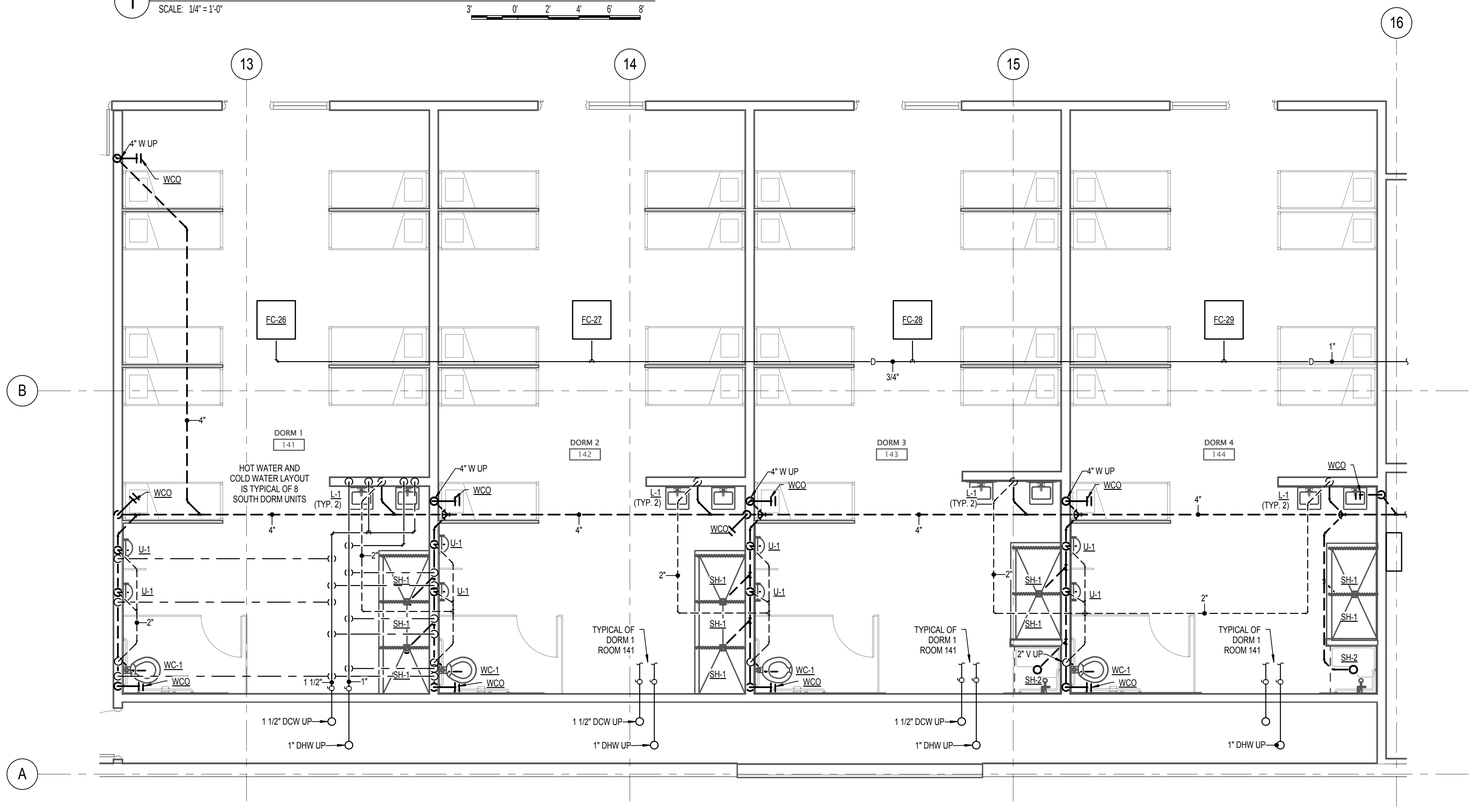


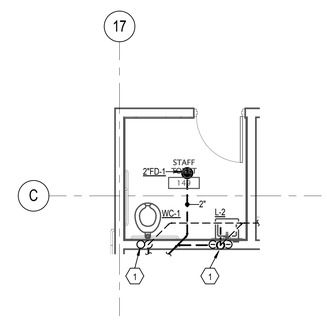
LEVEL 1 NORTH DORMS ENLARGED PLUMBING PLAN

1 SCALE: 1/4" = 1'-0"



LEVEL 1 SOUTH DORMS ENLARGED PLUMBING PLAN

2 SCALE: 1/4" = 1'-0"



LEVEL 1 STAFF TOILET 131 ENLARGED PLUMBING PLAN

3 SCALE: 1/4" = 1'-0"

KEYED NOTES

1 HOT AND COLD WATER FROM ABOVE. ROUTE TO WATER CLOSET AND LAVATORY.

GENERAL NOTES

A. SEE GAS PIPING SCHEMATIC ON SHEET PL-601.

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Stephen C. Colvin
No. 187524
03/16/2012
REGISTERED PROFESSIONAL ENGINEER
State of Utah

PAROLE VIOLATOR CENTER

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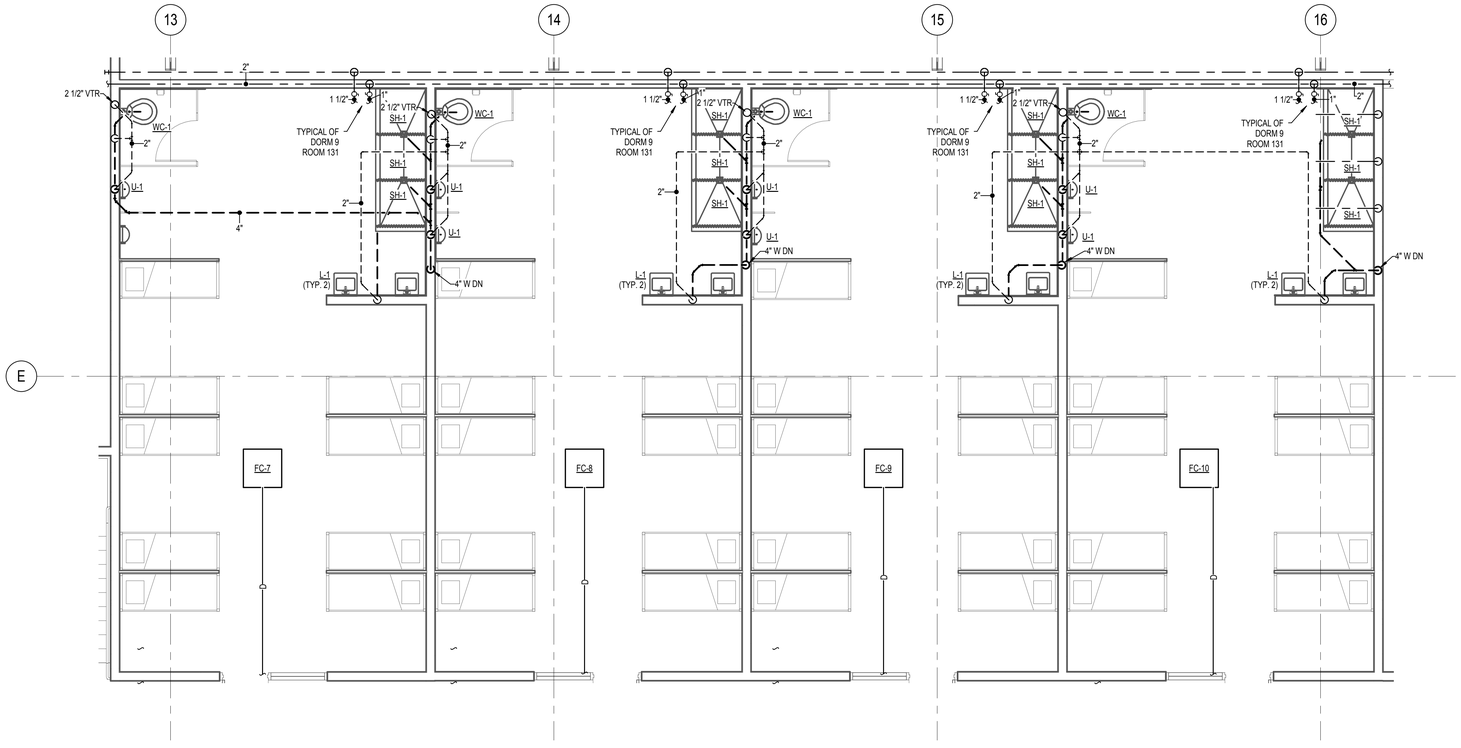
PLUMBING ENLARGED PLANS

Construction Documents

PL-401

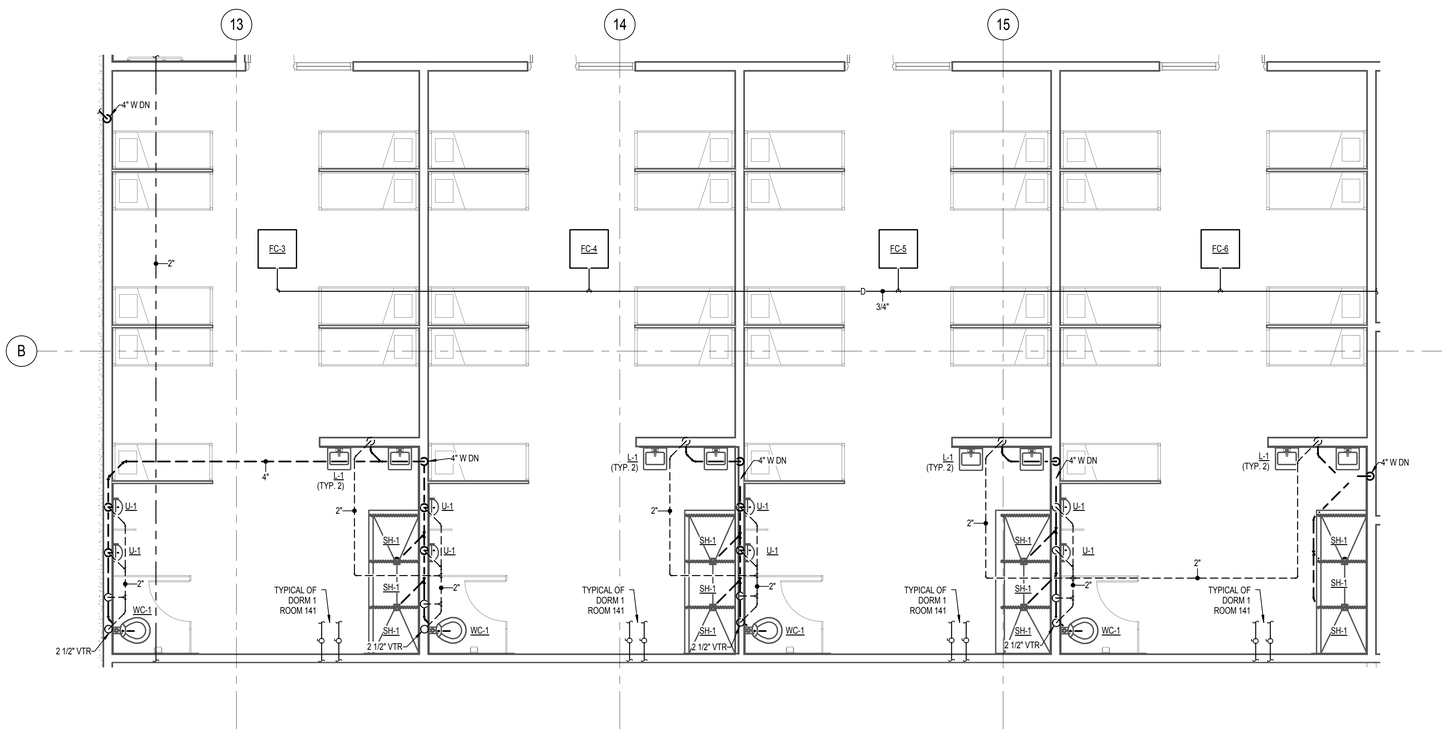


LEVEL 2 NORTH DORMS ENLARGED PLUMBING PLAN

1

SCALE: 1/4" = 1'-0"

3' 0' 2' 4' 6' 8'



LEVEL 2 SOUTH DORMS ENLARGED PLUMBING PLAN

2

SCALE: 1/4" = 1'-0"

3' 0' 2' 4' 6' 8'

GENERAL NOTES

A. SEE GAS PIPING SCHEMATIC ON SHEET PL-601.

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ENLARGED PLUMBING PLANS

Construction Documents

PL-402

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REVISIONS:

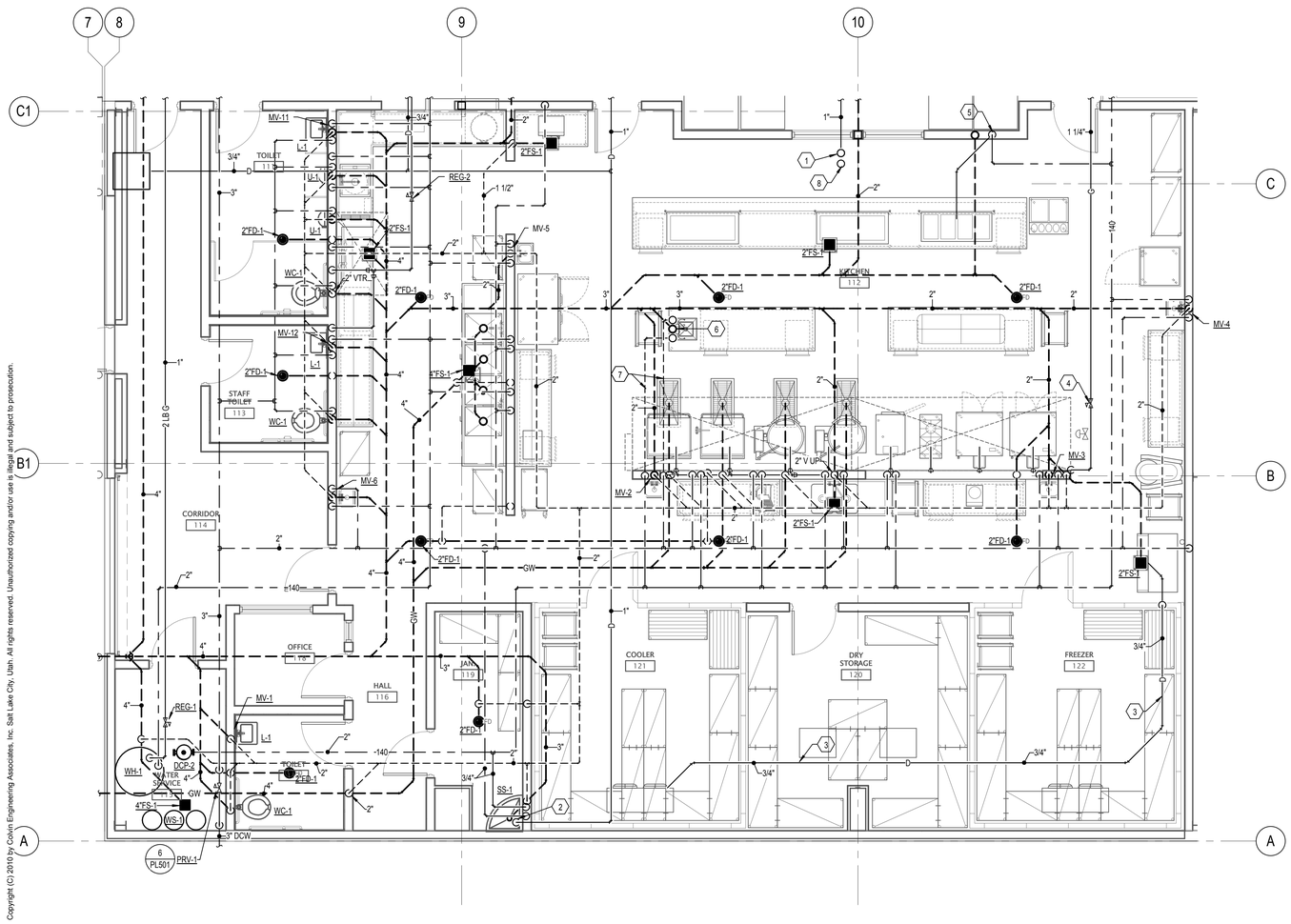
KEYED NOTES

1. ROUTE 1" NATURAL GAS UP THE MAU-1. PROVIDE REGULATOR ON ROOF.
2. TERMINATE CONDENSATE DRAINS FROM FC IN SERVICE SINK WITH AIR GAP.
3. ROUTE CONDENSATE DRAIN FROM COOLER/FREEZER EQUIPMENT TO FLOOR SINK AND TERMINATE WITH AIR GAP.
4. NATURAL GAS EMERGENCY SHUT OFF VALVE. INTERLOCK WITH HOOD FIRE SUPRESSION SYSTEM TO SHUT UPON ALARM PROVIDED BY KITCHEN SUPPLIER INSTALLED BY PLUMBING CONTRACTOR.
5. ROUTE 1/2" HW DOWN & UNDER FLOOR TO HOT FOOD WARMER.
6. PROVIDE ISLAND VENT.
7. ROUTE HOT & COLD WATER UNDER FLOOR TO UTILITY SINK.
8. 3/4" COLD WATER SUPPLY UP TO MAU-1 EVAP. SECTION. PROVIDE SHUT OFF VALVE IN BUILDING WITH DRAIN VALVE FOR WINTER DRAIN DOWN.

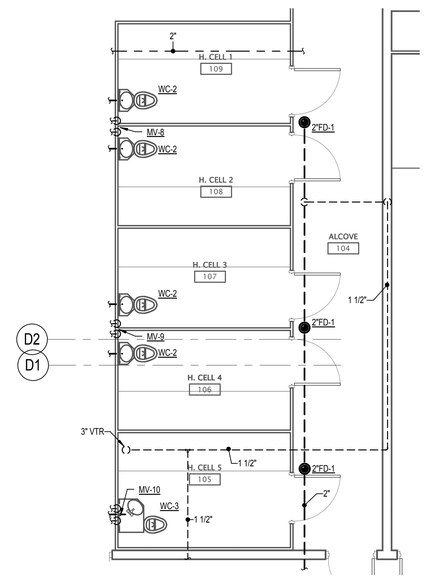
GENERAL NOTES

A. COORDINATE WITH FOOD SERVICE PLUMBING EQUIPMENT SCHEDULE AND DRAWINGS FOR CONNECTIONLOCATIONS AND SIZES. CONTRACTOR IS RESPONSIBLE TO MAKE ALL FINAL CONNECTIONS TO KITCHEN EQUIPMENT.

B. COORDINATE REQUIRED BACKFLOW PREVENTERS PER FOOD SERVICE DRAWINGS.



1 ENLARGED KITCHEN PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 LEVEL 1 ENLARGED HOLDING CELL PLUMBING PLANS
SCALE: 1/4" = 1'-0"

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03/16/2012
Registered Professional Engineer
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PAROLE VIOLATOR CENTER

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ENLARGED PLUMBING PLANS

Construction Documents

PL-403

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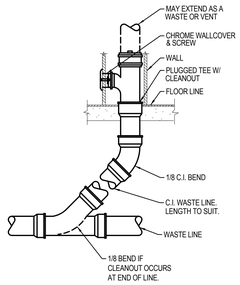
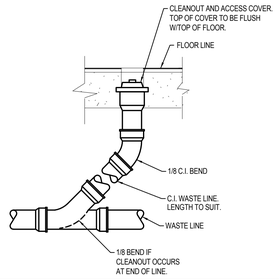


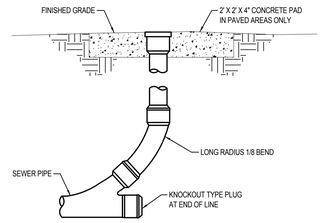
1 WALL CLEANOUT DETAIL

NO SCALE



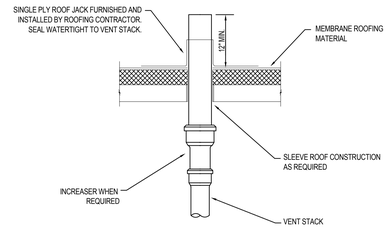
2 FLOOR CLEANOUT DETAIL

NO SCALE



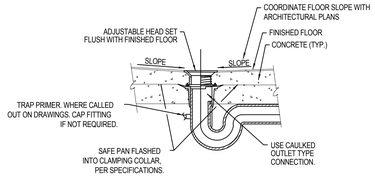
3 SURFACE CLEANOUT DETAIL

NO SCALE



4 VENT THROUGH ROOF DETAIL

NO SCALE

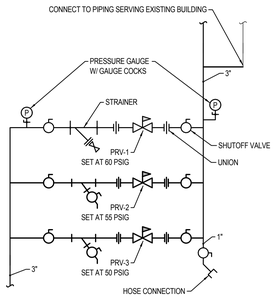


5 TYPICAL FLOOR DRAIN

NO SCALE

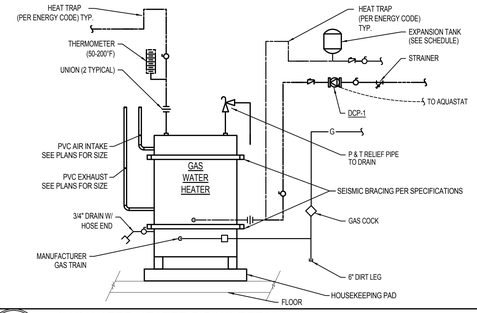
PRV SCHEDULE

PLAN CODE	SIZE	MAX GPM @ 10 PSI ΔP	MANUFACTURER & MODEL NO
PRV-X	1 1/4"	46	WATTS REGULATOR SERIES 223S
PRV-X	2"	100	WATTS REGULATOR SERIES 223S
PRV-X	3"	180	WATTS REGULATOR SERIES N223BS



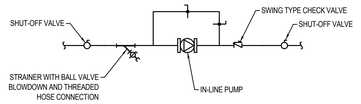
6 PRV STATION DETAIL

NO SCALE



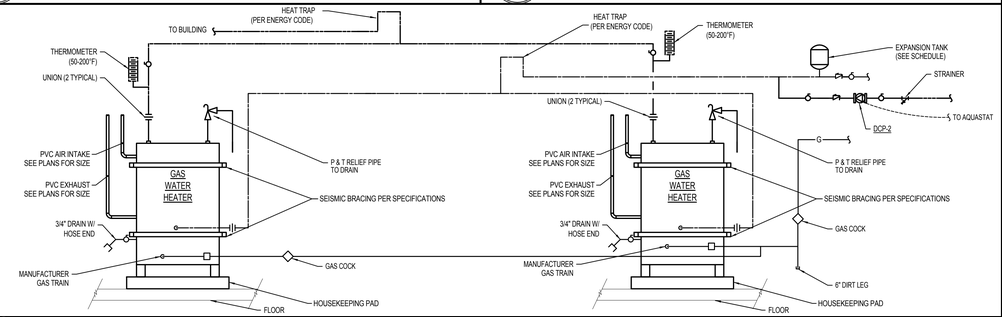
7 GAS WATER HEATER PIPING DETAIL

NO SCALE



8 IN-LINE PUMP PIPING DETAIL

NO SCALE



9 GAS WATER HEATER PIPING DETAIL

NO SCALE

10 NO SCALE

11 NO SCALE

12 NO SCALE

13 NO SCALE

14 NO SCALE

15 NO SCALE

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PLUMBING DETAILS

Construction Documents

PL-501

DOMESTIC HOT WATER HEATER SCHEDULE (WH)

PLAN CODE	AREA SERVED	INPUT (MBH)	EFFICIENCY %	CAP. (GAL)	RECOVERY RATE (GPH)	TEMP. RISE (°F)	VOLTAGE & PHASE	MAX. DIMENSIONS		OPERATING WEIGHT (LBS.)	VENT SIZE/ TYPE	EXPANSION TANK	MANUFACTURER & MODEL NO.	REMARKS
								DIAMETER (IN)	HEIGHT (IN)					
WH-1	KITCHEN	300	96	130	360	100	120/1	40	74	2000	4"/ PVC	AMTROL THERM-X-TROL ST-12	A.O. SMITH BTH-300	3 AMPS
WH-2	BUILDING	400	96	130	480	100	120/1	40	74	2000	4"/ PVC	AMTROL THERM-X-TROL ST-36	A.O. SMITH BTH-400	3 AMPS
WH-3	BUILDING	400	96	130	480	100	120/1	40	74	2000	4"/ PVC	AMTROL THERM-X-TROL ST-36	A.O. SMITH BTH-400	3 AMPS

MIXING VALVE SCHEDULE (MV)

PLAN CODE	MIN GPM	MAX GPM	INLET SIZE	OUTLET SIZE	MANUFACTURER & MODEL NO.
MV-1	.5	13	1/2"	1/2"	LEONARD 270
MV-2	.5	13	1/2"	1/2"	LEONARD 270
MV-3	.5	13	1/2"	1/2"	LEONARD 270
MV-4	.5	13	1/2"	1/2"	LEONARD 270
MV-5	.5	13	1/2"	1/2"	LEONARD 270
MV-6	.5	13	1/2"	1/2"	LEONARD 270
MV-7	.5	13	1/2"	1/2"	LEONARD 270
MV-8	.5	13	1/2"	1/2"	LEONARD 270
MV-9	.5	13	1/2"	1/2"	LEONARD 270
MV-10	.5	13	1/2"	1/2"	LEONARD 270
MV-11	.5	13	1/2"	1/2"	LEONARD 270
MV-12	.5	13	1/2"	1/2"	LEONARD 270

WATER SOFTENER SCHEDULE (WS)

PLAN CODE	CONTINUOUS FLOW RATE	CAPACITY (GRAINS)	CONTROL	MAX DIMENSIONS	MANUFACTURER & MODEL NO	REMARKS
WS-1	38	150,000	DIGITAL	72" X 24"	MARLO MAT-150M-1-1/2	KITCHEN HOT WATER HEATER

DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE

PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR		MANUFACTURER & MODEL NO.	REMARKS
					H.P.	VOLTAGE & PHASE		
DCP-1	BUILDING HOT WATER RECIRC.	5	15	2650	.08	120/1	B & G PL-30	INLINE BRONZE
DCP-2	KITCHEN HOT WATER RECIRC.	5	15	2650	.08	120/1	B & G PL-30	INLINE BRONZE

NATURAL GAS PRESSURE REGULATOR SCHEDULE (REG)

PLAN CODE	TYPE	INLET PRESURE (PSIG)	OUTLET PRESURE (OZ/ SQ IN)	LOAD (BTUH)	GAS DELIVERY (CFH)	REMARKS
REG-1	-	2 LB.	4 OZ.	299,930	337	VENTED TO OUTSIDE
REG-2	-	2 LB.	4 OZ.	247,420	278	VENTED TO OUTSIDE
REG-3	-	2 LB.	4 OZ.	325,740	366	VENTED TO OUTSIDE
REG-4	-	2 LB.	4 OZ.	768,070	863	VENTED TO OUTSIDE
REG-5	-	2 LB.	4 OZ.	799,220	898	VENTED TO OUTSIDE
REG-6	-	2 LB.	4 OZ.	144,180	162	VENTED TO OUTSIDE

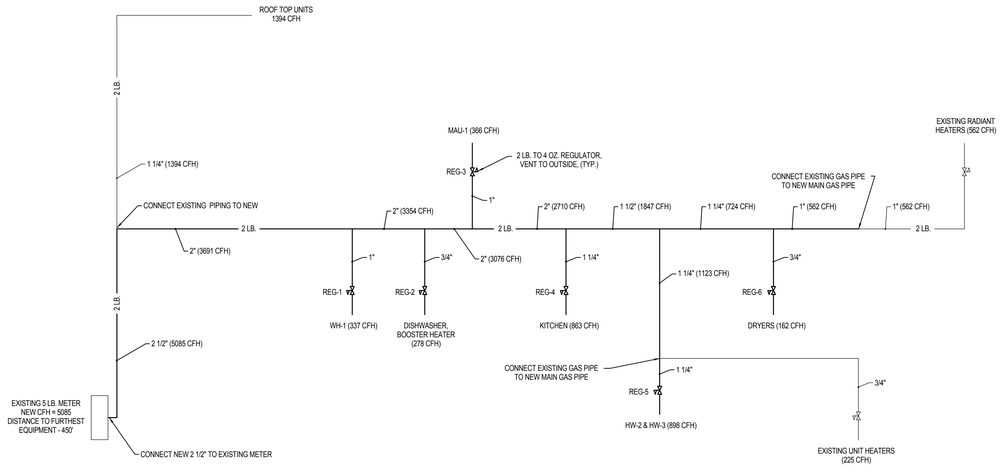
CONDENSATE PUMP SCHEDULE

PLAN CODE	DUTY	GPM	FEET OF HEAD	MOTOR		MANUFACTURER & MODEL NO.	REMARKS
				H.P.	VOLTAGE & PHASE		
CP-1	BC-1	.66	18'	1/30	120/1	LIBERTY LCU-20S	1/2 GAL. TANK, 6' POWER CORD
CP-2	BC-2	.66	18'	1/30	120/1	LIBERTY LCU-20S	1/2 GAL. TANK, 6' POWER CORD
CP-3	BC-3	.66	18'	1/30	120/1	LIBERTY LCU-20S	1/2 GAL. TANK, 6' POWER CORD

PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	ROUGH-IN SIZE					MANUFACTURER
		C.W.	H.W.	TEMPERED	WASTE	VENT	
WC-1	WATER CLOSET, ADA COMPLIANT, WALL MOUNT, MANUAL FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.28 GPF	1"	-	-	4"	2"	AMERICAN STANDARD "AFWALL FLOWISE" 3351.128 SEAT: OLSONITE #10SSC FLUSH VALVE: SLOAN ROYAL 111-1.28 COLOR: WHITE FLOOR TO RIM: 17".
WC-2	WATER CLOSET - LAVATORY COMBY, INSTITUTIONAL, WALL MOUNT, MANUAL FLUSH VALVE , SIPHON JET, STAINLESS STEEL 1.6 GPF	1"	1/2"	-	4"	2"	ACORN 1418-CT-2-BP-04-FV-PH
WC-3	WATER CLOSET - LAVATORY COMBY, ADA COMPLIANT, INSTITUTIONAL, WALL MOUNT, MANUAL FLUSH VALVE , SIPHON JET, STAINLESS STEEL 1.6 GPF	1"	1/2"	-	4"	2"	ACORN 1435-ADA-LO-2-DMS-04
U-1	URINAL, VITREOUS CHINA, SIPHON JET, BATTERY OPERATED FLUSH VALVE, 1/8 GPF	3/4"	-	-	2"	1 1/2"	ZURN Z5798 HIGH EFFICIENCY URINAL SYSTEM COLOR: WHITE SEE ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS.
L-1	WALL MOUNT, CAST IRON, ADA COMPLIANT, 4" CENTER SET FAUCET WITH LEVER HANDLES AND GRID DRAIN, 0.5 GPM AERATOR.	1/2"	1/2"	-	1 1/2"	1 1/2"	AMERICAN STANDARD "REGALYN" 4867.004 FAUCET: AMERICAN STANDARD 5502.140 WITH GRID DRAIN, PROVIDE HEAVY DUTY CARRIER
SS-1	SERVICE SINK, ENAMELED CAST IRON, WITH RIM GAURD, 3" GRID DRAIN AND FAUCET WITH VACUUM BREAKER, STOPS, TOP BRACE, CHROME FINISH.	3/4"	3/4"	-	3"	2"	SINK: KOHLER,K-6710 FAUCET: KOHLER K-8907
SH-1	SINGLE LEVER, PRESSURE BALANCING MIXING VALVE WITH INTEGRAL VOLUME CONTROL, CHROME SHOWER HEAD, TEMPERATURE LIMIT STOPS	1/2"	1/2"	-	-	-	SYMMONS S-96-1
SH-2	PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, DIVERTER WITH INTEGRAL VOLUME CONTROL, FLEX METAL HOSE, SLIDE ROD WITH HAND SHOWER, ADA COMPLIANT, TEMPERATURE LIMIT STOPS	1/2"	1/2"	-	-	-	SYMMONS 96-500-B30-L-V-X-295
FD-1	FLOOR DRAIN (INDOOR FINISHED AREA USE)	-	-	-	SEE PLANS	SEE PLANS	J.R. SMITH MANUFACTURING COMPANY FIG. 2005Y-A-P050-NB DUCO CAST IRON FLOOR DRAIN. DRAIN TO BE PROVIDED WITH 2" OUTLET, ROUND NICKEL BRONZE STRAINER HEAD, TRAP PRIMER CONNECTION AND VANDAL PROOF SCREWS. STRAINER HEAD MUST BE HEEL PROOF, DEEP SEAL TRAP SURE SEAL.
FS-1	FLOOR SINK	-	-	-	SEE PLANS	1 1/2"	J.R. SMITH MANUFACTURING COMPANY FIG. 3150-Y-ASB SQUARE FLOOR SINK. FLOOR SINK SHALL BE OF CAST IRON CONSTRUCTION WITH ENAMEL INTERIOR FINISH, MINIMUM INTERIOR DIMENSIONS OF 12"x12"x8"D. PROVIDE WITH NICKEL BRONZE GRATE AND DEEP SEAL P-TRAP. SEE FOOD SERVICE EQUIPMENT PLANS FOR GRATE REQUIRED IN KITCHEN. OR EQUAL. PROVIDE HEAVY DUTY GRATE IN MECHANICAL ROOMS.
HB-1	HOSE BIBB - WALL MOUNTED (INDOOR FINISHED AREA USE)	3/4"	-	-	-	-	CHICAGO FAUCETS MODEL 952 CP, BRASS CONSTRUCTION HOSE BIB, CHROME PLATED FINISH, VACUUM BREAKER, 3/4" HOSE THREAD, WALL FLANGE, LOOSE KEY OPERATOR. OR EQUAL
WCO	WALL CLEANOUT	-	-	-	SEE PLANS	-	J.R. SMITH MANUFACTURING COMPANY SERIES 4530, CAST IRON CLEANOUT TEE, ABS PLUG, STAINLESS STEEL COVER WITH VANDAL PROOF SECURITY SCREWS. OR EQUAL.
FCO	FLOOR CLEANOUT	-	-	-	SEE PLANS	-	J.R. SMITH MANUFACTURING COMPANY SERIES 4020, CAST IRON ADJUSTABLE BODY, ABS PLUG, VANDAL PROOF SECURITY SCREWS. OR EQUAL.
SA-1	SHOCK ARRESTOR	1"	-	-	-	-	PRECISION PLUMBING PRODUCTS SC-1000 . . OR EQUAL
EWC-1	BI-LEVEL, SURFACE MOUNTED DRINKING FOUNTAIN	3/8"	-	-	1 1/2"	1 1/2"	ELKAY EDFPBMV117RAC, STAINLESS STEEL, VANDAL RESISTANT
GI-1	GREASE INTERCEPTOR	-	-	-	3"	3"	DURA-CRETE 1500 GALLON, PROVIDE HEAVY DUTY MANHOLE COVER AND EXTENSION RINGS TO GRADE. MANHOLE COVER SEALS. INSIDE DIMENSION - L=11', W=5', D=5' OUTSIDE DIMENSION - L=12', W=6', D=6'-6"
MH-1	SAMPLING MANHOLE	-	-	-	-	-	36" DIAMETER SAMPLING MANHOLE. MANHOLE COVER SEALS.
WWB-1	WASHER WALL BOX	1/2"	1/2"	-	2"	-	OATEY 38934

(1) REFER TO THE ARCHITECTURAL PLUMBING ACCESSORIES SPECIFICATION SECTION FOR THE SHOWER MODULE SPECIFICALLY. CONTRACTOR TO COORDINATE.



1 NATURAL GAS PIPING SCHEMATIC

SCALE: NONE

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PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	TCF
CHECKED BY:	BRC
OWNER PROJECT NO.:	
CEA PROJECT NO.:	2011-098.00
ISSUED DATE:	03/16/2012

PLUMBING SCHEDULES

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
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Phone: (801) 322-2400 / Fax: (801) 322-2416

Construction Documents

PL-601

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
BDT	BEAM DETECTOR - TRANSMITTER	4" BELOW CEILING TO TOP OF DETECTOR	
BDR	BEAM DETECTOR - RECEIVER	4" BELOW CEILING TO TOP OF DETECTOR	
EOL	END OF LINE DEVICE	PER MANUFACTURER RECOMMENDATIONS	
T	TAMPER SWITCH	AT VALVE	
W	WATER FLOW INDICATOR	ON FIRE RISER	
FSD	FIRE/SMOKE DAMPER		RUN POWER THROUGH FIRE ALARM CONTROL MODULE
	HEAT DETECTOR	CEILING	
	SMOKE DETECTOR	CEILING	
D	DUCT SMOKE DETECTOR	SIDE OF DUCT	
F	FIRE ALARM MANUAL STATION	+48"	
Z	CONTROL MODULE	AS SHOWN	
I	MONITOR MODULE	AT DEVICE(S) TO MONITOR	
R	FAN SHUTDOWN RELAY	AT FAN CONTROL PANEL	
D	MAGNETIC DOOR HOLDER	COORDINATE WITH DOOR INSTALLER	COORDINATE WITH DOOR INSTALLER; SUBSCRIPT 'F' INDICATES TO MOUNT AT FLOOR LEVEL
WF	WATER FLOOD INDICATOR	FLOOR	
H	AUDIO HORN	MOUNT AT LESSOR OF EITHER 84" AFF OR 6" BELOW CEILING.	SUBSCRIPT 'WP' INDICATES THAT A WEATHER PROOF BACK BOX IS REQ. SUBSCRIPT 'C' INDICATES CEILING MOUNTING. NUMERIC SUBSCRIPT INDICATES CANDELLA RATING OF STROBE (I.E. - 15, 75, 110)
M	MINI AUDIO HORN		
	FIRE ALARM VISUAL STROBE		
	FIRE ALARM AUDIO/VISUAL HORN/STROBE		
M	MINI AUDIO/VISUAL HORN/STROBE		
S	FIRE ALARM AUDIO SPEAKER		
	FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE		
	FIRE PROTECTION SPRINKLER RISER BELL	+90"	FURNISHED BY FIRE PROTECTION CONTRACTOR AND INSTALLED AND CONNECTED BY DIV. 16000

TELEVISION SYSTEM SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	TELEVISION OUTLET	AS NOTED	
	ANTENNA	ROOF	

ACCESS CONTROL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
REX	REQUEST-TO-EXIT MOTION DETECTOR	CEILING	
S	ELECTROMAGNETIC DOOR STRIKE	DOOR	
D	MAGNETIC DOOR CONTACT SWITCH	DOOR	
M	MAGNETIC LOCK	DOOR	
KP	KEYPAD	+48"	
PK	PROXIMITY CARD READER / KEYPAD	+48"	
MK	MAGNETIC STRIP CARD READER / KEYPAD	+48"	
PR	PROXIMITY CARD READER	+48"	
MR	MAGNETIC STRIP CARD READER	+48"	

INTERCOM SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
IM	INTERCOM MASTER STATION	+60"	SUBSCRIPT 'D' INDICATES DESK MOUNTING
IC	INTERCOM STATION	+60"	

CLOSED CIRCUIT TELEVISION SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	CLOSED CIRCUIT TELEVISION CAMERA	CEILING	
PTZ	CLOSED CIRCUIT TELEVISION CAMERA (HIGH SPEED DOME WITH PAN / TILT / ZOOM HEAD)	CEILING	
TV	CLOSED CIRCUIT TELEVISION MONITOR	DESK	
MATRIX	MATRIX SWITCHER	DESK	
FJ	FIBER JUNCTION BOX	72" TO TOP OF BOX	

FLOOR BOX & POKE THRU SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	SINGLE-GANG FLOOR BOX WITH DEVICE	FLOOR	DEVICES SHOWN ARE EXAMPLES OF WHAT MAY BE SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE FOR SYMBOL DESCRIPTIONS
	DOUBLE-GANG FLOOR BOX WITH DEVICES	FLOOR	
	TRIPLE-GANG FLOOR BOX WITH DEVICES	FLOOR	
IG	MULTI-SERIVCE FLOOR BOX WITH DEVICES	FLOOR	
	FLUSH MULTI-SERVICE POKE-THRU WITH DUPLEX RECEPTACLE & COMMUNICATIONS PORTS	FLOOR	
	MULTI-SERVICE POKE-THRU WITH FURNITURE FEED CONNECTIONS. (POWER & COMMUNICATIONS)	FLOOR	PROVIDE ELECTRICAL CONNECTIONS TO SYSTEMS FURNITURE. COORDINATE PLACEMENT OF OUTLETS WITH SYSTEM FURNITURE INSTALLER PRIOR TO ROUGH-IN.
P	POKE-THRU WITH FURNITURE FEED CONNECTIONS. (POWER ONLY)	FLOOR	
C	POKE-THRU WITH FURNITURE FEED CONNECTIONS. (COMMUNICATIONS ONLY)	FLOOR	
P	OUTLET BOX WITH FURNITURE FEED CONNECTIONS. (POWER ONLY)	+18"	
C	OUTLET BOX WITH FURNITURE FEED CONNECTIONS. (COMMUNICATIONS ONLY)	+18"	
P	UNDERFLOOR DISTRIBUTION BOX WITH FURNITURE FEED CONNECTIONS. (POWER ONLY)	BELOW RAISED FLOOR	
C	UNDERFLOOR DISTRIBUTION BOX WITH FURNITURE FEED CONNECTIONS. (COMMUNICATIONS ONLY)	BELOW RAISED FLOOR	
	MULTI-SERVICE FLOOR BOX WITH FURNITURE FEED CONNECTIONS	FLOOR	
	POWER POLE WITH FURNITURE FEED CONNECTIONS	FLOOR/CEILING	

LIGHTING SYMBOLS

1. LIGHT FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON THE DRAWINGS IN VARIOUS SIZES AND SHAPES. REFER TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION.
2. ARROWS INDICATE AIMING DIRECTION.

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	POST-TOP SINGLE-HEAD, LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED FIXTURE	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	LIGHT BOLLARD	AS SPECIFIED OR DETAILED	
	FLOOD LIGHT	AS SPECIFIED OR DETAILED	
	RECESSED WALL FIXTURE OR STEP LIGHT	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	FLUORESCENT LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
	PARABOLIC - LOUVERED LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
	RECESSED INDIRECT FLUORESCENT LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED LINEAR FLUORESCENT LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
	FLUORESCENT LINEAR WALL WASHER	AS SPECIFIED OR DETAILED	
	RECESSED DOWN LIGHT	AS SPECIFIED OR DETAILED	
	RECESSED WALL-WASHER OR DIRECTIONAL DOWNLIGHT	AS SPECIFIED OR DETAILED	IF SHOWN, ARROW INDICATES AIMING DIRECTION
	SURFACE OR PENDANT-MOUNTED LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED LIGHT FIXTURE	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	TRACK OR MONO-POINT LIGHT FIXTURE	AS SPECIFIED OR DETAILED	IF SHOWN, ARROW INDICATES AIMING DIRECTION
	WALL SCONCE	AS SPECIFIED OR DETAILED	
	FLUORESCENT EGRESS LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IS AN EXAMPLE OF AN EGRESS LIGHT FIXTURE. EGRESS LIGHT FIXTURES ARE HALF-SHADED DIAGONALLY.
	FLUORESCENT EMERGENCY (NON-EGRESS) LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IN AN EXAMPLE OF AN EMERGENCY (NON-EGRESS) LIGHT FIXTURE. EMERGENCY FIXTURES ARE FULLY-SHADED.
	CEILING MOUNTED EXIT SIGN	CEILING	DARKENED PORTION OF SIGN INDICATES FACE(S); ARROW(S) INDICATE CHEVRON DIRECTION(S)
	WALL-MOUNTED EXIT SIGN	WALL ABOVE DOOR	
	WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGHT FIXTURE	WALL ABOVE DOOR	
TC	TIME CLOCK		
	EMERGENCY LIGHT FIXTURE	AS NOTED	
P	ELECTRIC PHOTOCELL	N/A	MOUNT ON ROOF FACING NORTH SKY
XX	LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE)		

GEAR AND CONTROL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
$\$_T$	MANUAL STARTER WITH THERMAL OVERLOAD(S)	AT EQUIPMENT	
	ELECTRIC MOTOR		
	NON-FUSED DISCONNECT SWITCH	+60"	
F	FUSED DISCONNECT SWITCH	+60"	
	CIRCUIT BREAKER AND ENCLOSURE	+60"	
	MAGNETIC STARTER	+60"	
	COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT	+60"	
	COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	+60"	
	COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)	+60"	
VFD	COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED
RVS	REDUCED VOLTAGE STARTER	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED
	LOAD CENTER (SURFACE-MOUNTED)	TOP AT +72"	14"W X 3"D
	LOAD CENTER (FLUSH-MOUNTED)	TOP AT +72"	14"W X 3"D
	LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +72"	20"W X 6"D
	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED)	TOP AT +72"	20"W X 6"D
	POWER DISTRIBUTION PANELBOARD	WALL	THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION. CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. 'L2A', 'MDP')
	SWITCHBOARD	FLOOR	
	METER BASE	TOP AT +72"	
	OPEN - STOP - CLOSE SWITCH	+60"	FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS.
T	HVAC THERMOSTAT	+60"	PROVIDED BY DIVISION 15000 U.N.O.
	HAND - OFF - AUTO SWITCH	+60"	
GF	GROUND FAULT PROTECTION		

TELEPHONE / DATA SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	TELEPHONE OUTLET	+18"	
	DATA OUTLET	+18"	
	COMBINATION TELEPHONE/DATA OUTLET	+18"	
	TELEPHONE TERMINAL BOARD	TOP AT 72"	

ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES

1. MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
2. WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR DEFINED REQUIREMENTS.
3. WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER.
4. NOT ALL ELECTRICAL SYMBOLS MAY BE USED.

GENERAL SYMBOLS

SYMBOL	DESCRIPTION	REMARKS
XX	KEYED NOTE	
1 / E-1	DETAIL REFERENCE	TOP NUMBER INDICATES DETAIL NUMBER; BOTTOM LETTER-NUMBER INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN; WHERE NOT SPECIFICALLY REFERENCED, DETAIL IS GENERAL IN NATURE AND SHALL APPLY WHERE APPLICABLE.
2 / E-2	ELEVATION REFERENCE	TOP NUMBER INDICATES ELEVATION NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION IS SHOWN.
3 / E-3	SECTION REFERENCE	TOP NUMBER INDICATES SECTION NUMBER; BOTTOM LETTER NUMBER INDICATES WHERE SECTION IS SHOWN.
100	ARCHITECTURAL ROOM NUMBER	
AHU / 1	EQUIPMENT NAME / NUMBER	TOP NUMBER ABBREVIATES EQUIPMENT NAME OR TYPE; BOTTOM NUMBER INDICATES EQUIPMENT NUMBER. REFER TO EQUIPMENT SCHEDULE.
EX	KITCHEN EQUIPMENT NAME / NUMBER	
1	REVISION NUMBER	USED TO DENOTE CHANGES EITHER ISSUED BY ADDENDUM OR DURING CONSTRUCTION AND TO DENOTE RECORD DRAWING CHANGES.
	BREAKLINE	USED TO BREAK DRAWINGS.

BRANCH CIRCUITING SYMBOLS

SYMBOL	DESCRIPTION	REMARKS
	1 CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED. SHORT CROSS LINES: NUMBER OF SHORT CROSS LINES INDICATES NUMBER OF PHASE, TRAVELER, AND/OR SWITCHED CONDUCTORS REQUIRED IF GREATER THAN 1 (ONE). LONG CROSS LINES: NUMBER OF LONG CROSS LINES INDICATES NUMBER OF NEUTRAL CONDUCTORS REQUIRED FOR MULTI-WIRE HOME RUNS. EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS: EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN, BUT ARE REQUIRED AS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
	2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	
	3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	
	MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXTURES, SWITCHES, DEVICES, ETC.	
	BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER.	
	BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM OBSERVER.	
	BRANCH CIRCUITING (U.N.O.) CONTINUATION	
	CONDUIT STUB-IN	CAP AND MARK
	INCOMING SERVICE	
J	JUNCTION BOX	MOUNT AS NOTED. SUBSCRIPT 'F' INDICATES TO PROVIDE A FLOOR BOX WITH BLANK COVERPLATE

WIRING DEVICE SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
$	SINGLE-POLE TOGGLE SWITCH	+48"	
$\$^a$	SINGLE-POLE TOGGLE SWITCH	+48"	SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
$\$_2$	DOUBLE-POLE TOGGLE SWITCH	+48"	
$\$_3$	THREE-WAY TOGGLE SWITCH	+48"	
$\$_4$	FOUR-WAY TOGGLE SWITCH	+48"	
$\$_K$	KEY-OPERATED SINGLE-POLE TOGGLE SWITCH	+48"	
$\$_P$	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	+48"	
$\$_{DIM}$	DIMMER SWITCH	+48"	RATE DIMMER SWITCH FOR MAXIMUM POSSIBLE WATTAGE
$\$_{TIM}$	TIMER SWITCH	+48"	
$$	(2) SINGLE-POLE TOGGLE SWITCH	+48"	DUAL LEVEL SWITCH OUTBOARD LAMPS SEPARATELY FROM INBOARD LAMPS.
$\$^a_{LV}$	LOW VOLTAGE MOMENTARY CONTACT SWITCH	+48"	
$\$_{3PM}$	3-POSITION MOMENTARY CONTACT SWITCH	+48"	REFER TO DETAIL UP-ON; CENTER-NEUTRAL; DOWN-OFF
$\$_{3PN}$	3-POSITION MAINTAINED CONTACT SWITCH	+48"	UP-ON; CENTER-OFF; DOWN-ON
	OCCUPANCY SENSOR	AS NOTED	CEILING MOUNTED WITH SUBSCRIPT 'C'; WALL-MOUNTED WITH SUBSCRIPT 'W'
$\$_{OCC}$	OCCUPANCY SENSOR SWITCH	+48"	
	SPLIT-WIRED DUPLEX RECEPTACLE	+18"	
	SIMPLEX RECEPTACLE	+18"	
	DUPLEX RECEPTACLE	+18"	
	FOURPLEX RECEPTACLE	+18"	
	125/250V RECEPTACLE	+18"	RANGE -- NEMA 14-50R DRYER -- NEMA 14-30R
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE	+18"	
	GROUND FAULT CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE	+18"	
	EMERGENCY DUPLEX RECEPTACLE	+18"	
	EMERGENCY FOURPLEX RECEPTACLE	+18"	
J	MULTI-OUTLET ASSEMBLY	4" ABOVE BACKSPLASH	
	POWER / TELEPHONE POLE	FLOOR/CEILING	
	CORD DROP WITH DUPLEX RECEPTACLE	+18"	REFER TO DETAIL
(5-20R)	SPECIAL PURPOSE OUTLET	+18"	SUBSCRIPT IN PARENTHESIS INDICATES NEMA CONFIGURATION IF SHOWN. REFER TO DRAWINGS AND/OR EQUIPMENT SCHEDULES. CONFIRM EXACT CONFIGURATION WITH OWNER PRIOR TO INSTALLATION.

ELECTRONIC SYSTEM GENERAL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
PANEL NAME	ELECTRONIC SYSTEM PANELBOARD (SURFACE MOUNT)	TOP AT 72"	ELECTRONIC SYSTEMS MAY INCLUDE BUT ARE NOT SPECIFICALLY LIMITED TO, TELEPHONE, DATA, TELEVISION, LIGHTING CONTROL, CLOCKS, FIRE ALARM, ACCESS CONTROL, SECURITY, CCTV, SOUND SYSTEM, NURSE CALL, OR INTERCOM.
PANEL NAME	ELECTRONIC SYSTEM PANELBOARD (FLUSH MOUNT)	TOP AT 72"	
	ELECTRONIC SYSTEM TERMINAL BOARD	TOP AT 72"	

ELECTRICAL SHEET INDEX

EG001	SYMBOL SCHEDULES AND NOTES
ED100	OVERALL ELECTRICAL DEMOLITION PLANS - LEVEL 1 & LEVEL 2
ED101	ELECTRICAL DEMO PLAN - LEVEL 1 AREA "A"
ED102	ELECTRICAL DEMO PLAN - LEVEL 1 AREA "B"
ED103	ELECTRICAL DEMO PLAN - LEVEL 2 AREA "A"
ED104	ELECTRICAL DEMO PLAN - LEVEL 2 AREA "B"
ED701	DEMOLITION ONE-LINE DIAGRAM
ES101	SITE PLAN
ES501	SITE DETAILS
EE100	OVERALL ELECTRICAL PLANS - LEVEL 1 & LEVEL 2
EL101	LIGHTING PLAN - LEVEL 1 AREA "A"
EL102	LIGHTING PLAN - LEVEL 1 AREA "B"
EL103	LIGHTING PLAN - LEVEL 2 AREA "A"
EL104	LIGHTING PLAN - LEVEL 2 AREA "B"
EL201	EXTERIOR ELEVATIONS
EL501	LIGHTING DETAILS AND RISER DIAGRAM
EL601	LIGHTING SCHEDULES
EL801	COMCHECK
EP101	POWER PLAN - LEVEL 1 AREA "A"
EP102	POWER PLAN - LEVEL 1 AREA "B"
EP103	POWER PLAN - LEVEL 2 AREA "A"
EP104	POWER PLAN - LEVEL 2 AREA "B"
EP105	POWER PLAN - ROOF AREA "A"
EP106	POWER PLAN - ROOF AREA "B"
EP201	ELECTRICAL ELEVATIONS
EP401	ENLARGED KITCHEN POWER PLAN
EP402	ENLARGED ELECTRICAL PLANS
EP501	ELECTRICAL DETAILS
EP601	EQUIPMENT SCHEDULES
EP701	ONE-LINE DIAGRAM
EP801	PANEL SCHEDULES
EP802	PANEL SCHEDULES
EP803	PANEL SCHEDULES
EY101	AUXILIARY PLAN - LEVEL 1 AREA "A"
EY102	AUXILIARY PLAN - LEVEL 1 AREA "B"
EY103	AUXILIARY PLAN - LEVEL 2 AREA "A"
EY104	AUXILIARY PLAN - LEVEL 2 AREA "B"
EY701	AUXILIARY SYSTEM RISER DIAGRAMS
EY702	AUXILIARY SYSTEM RISER DIAGRAMS

ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

A	ABOVE COUNTER	ISO	ISOLATED
A	AMP OR AMPS	KVA	KILO VOLT AMPERES
ADJ	ADJACENT	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	LFMC	LIQUID-TIGHT METAL CONDUIT
AHJ	AUTHORITY HAVING JURISDICTION	LFNC	LIQUID-TIGHT NONMETAL CONDUIT
AL	ALUMINUM	MCA	MINIMUM CIRCUIT AMPS
C	CONDUIT	MLO	MAIN LUGS ONLY
CB	CIRCUIT BREAKER	N.C.	NORMALLY CLOSED
CKT	CIRCUIT	N.I.C.	NOT IN CONTRACT
C.O.'S	CONVENIENCE OUTLETS	N.L.	NIGHT LIGHT
CU	COPPER	N.O.	NORMALLY OPEN
EA	EACH	O.C.	ON CENTER(S)
ELEC	ELECTRICAL	OCP	OVER CURRENT PROTECTION
EM	EMERGENCY	QTY	QUANTITY
EMT	ELECTRIC METALLIC TUBING	R	REMOVE
ENT	ELECTRIC NONMETALLIC TUBING	REQ.	REQUIREMENTS
EQUIP	EQUIPMENT	RMC	RIGID METAL CONDUIT
EWC	ELECTRIC WATER COOLER	RNC	RIGID NONMETALLIC CONDUIT
E, EX	EXISTING	RR	REMOVE AND RELOCATE
EXP	EXPLOSION PROOF	SS	SURGE SUPPRESSION
FA	FIRE ALARM	SCP	SECURITY CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL	TR	TAMPER RESISTANT
FLA	FULL LOAD AMPS	TYP	TYPICAL
FMC	FLEXIBLE METAL CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FOB	FREIGHT ON BOARD	UF	UNDER FLOOR
GND	GROUND CONDUCTOR	UG	UNDERGROUND
HOA	HAND-OFF-AUTO	U.N.O.	UNLESS NOTED OTHERWISE
HP	HORSE POWER	W/	WITH
IG	ISOLATED GROUND	WP	WEATHER PROOF
IMC	INTERMEDIATE METAL CONDUIT	XFMR	TRANSFORMER
INS	INSULATED		

GENERAL PROJECT NOTES:

1. DIVISION 26000 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES. THERE WILL BE NO EXCEPTIONS.
2. THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING , AT THEIR DISCRETION WITH THE ELECTRICAL ENGINEER AND REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
3. THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS, THESE ITEMS DO NOT REPRESENT ALL ITEMS AND THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF THE SPECIFICATIONS:
   A. INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZES USED ON THIS PROJECT.
   B. A DEDICATED NEUTRAL CONDUCTOR SHALL BE RUN WITH EACH PHASE CONDUCTOR. SHARING OF THE NEUTRAL CONDUCTOR IS NOT ALLOWED.
   C. THE CONTRACTOR IS RESPONSIBLE FOR UPSIZING CONDUCTORS FOR VOLTAGE DROP PER THE NEC REGARDLESS OF WHETHER IT IS SHOWN ON THE PLANS OR NOT.
   D. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
   E. THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL AND NATIONAL CODE.
4. THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED A SPECIFIC AREA OF THE BUILDING. NO DEVIATION WILL BE ALLOWED WITHOUT THE APPROVAL FROM THE ELECTRICAL ENGINEER.
5. THE CONTRACTOR SHALL INSTALL PROPER WIRE SIZE AS CALLED OUT ON THE PANELBOARD SCHEDULES. HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS LARGE ENOUGH FOR VOLTAGE DROP.
6. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL OVERCURRENT DEVICES FOR THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED ON THE JOB, PRIOR TO RELEASE OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT. CONTACT THE ELECTRICAL ENGINEER WITH ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO EXTRA PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.
8. THE CONTRACTOR SHALL MAKE SURE THAT ALL BRANCH CIRCUITS THAT ARE AFFECTED BY THIS PROJECT ARE NOT OVERLOADED. PROVIDE ADDITIONAL BRANCH CIRCUITS FROM ELECTRICAL PANELS AS NECESSARY TO COMPLY WITH THE BRANCH CIRCUIT LOADING REQUIREMENTS. PROVIDE ALL MATERIAL AND LABOR AS NECESSARY FOR A COMPETE AND OPERATING SYSTEM.
9. PROVIDE UPDATED, TYPED PANELBOARD SCHEDULE(S) TO REFLECT ALL THE CHANGES MADE INCLUDING EXISTING LOADS. THE EXISTING LOADS SHALL BE NAMED THE SAME AS LISTED ON THE EXISTING PANELBOARD SCHEDULE.

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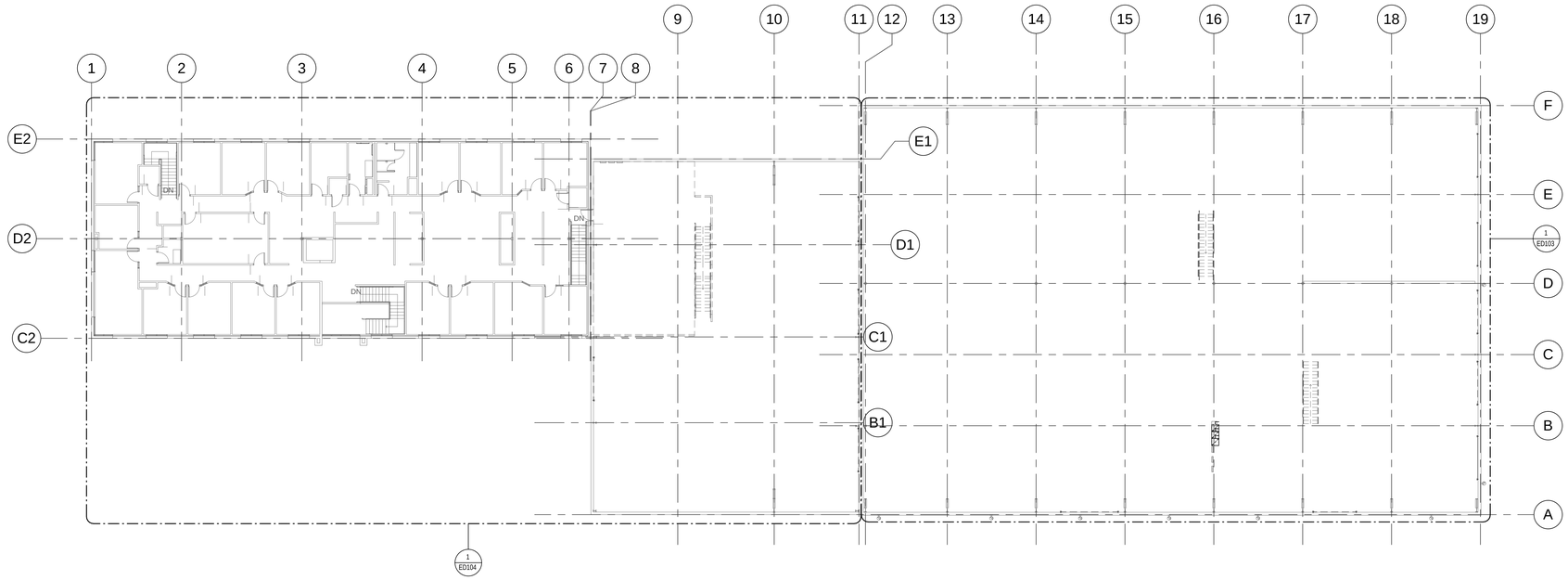
SYMBOL SCHEDULES AND NOTES

EG001



2 ED100 LEVEL 2 OVERALL DEMOLITION PLAN
1/16" = 1'-0"

1 ED100 LEVEL 1 OVERALL DEMOLITION PLAN
1/16" = 1'-0"

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THE GREAT SEAL OF THE STATE OF UTAH 1896

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ENVISION PROJECT NO.: 2011-181.00
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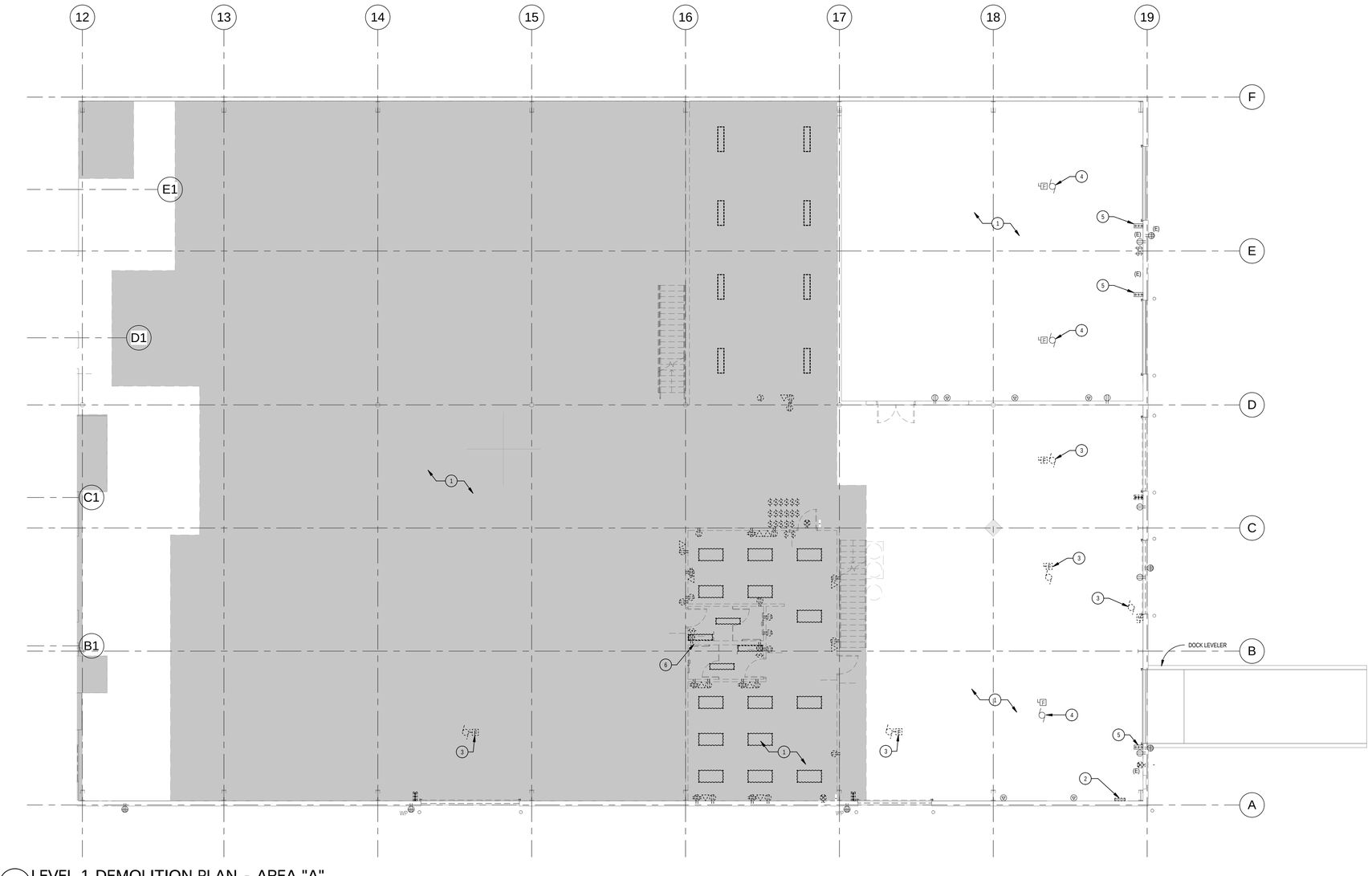
OVERALL ELECTRICAL DEMOLITION PLANS - LEVEL 1 & LEVEL 2

ED100



1 ED101 LEVEL 1 DEMOLITION PLAN - AREA "A"
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK & DASHED LINES. LIGHT & SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

A. DISCONNECT AND REMOVE ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.

B. RELOCATE, REWIRE, AND/OR RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.

C. LEAVE ALL EXITING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.

D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE, TAPE CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO, OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.

E. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. INSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.

F. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.

G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.

H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.

KEYED NOTES:

1. REMOVE ALL ELECTRICAL EQUIPMENT IN THIS AREA WHETHER SHOWN OR NOT . REMOVE ALL ELECTRICAL EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE.
2. REMOVE EXISTING ELECTRICAL PANEL. REMOVE ASSOCIATED FEEDER BACK TO SOURCE. (PS)
3. EXISTING OHD MOTOR TO BE REMOVED. DISCONNECT ANY AND ALL ASSOCIATED ELECTRICAL. REMOVE BACK TO SOURCE COMPLETE.
4. EXISTING OVERHEAD DOOR MOTOR TO REMAIN IN PLACE. DISCONNECT AND REMOVE THE EXISTING DISCONNECT AND BRANCH CIRCUIT BACK TO THE SOURCE. THE EXISTING CONDUIT SHALL REMAIN TO BE REUSED.
5. EXISTING OHD SWITCH TO REMAIN.
6. EXISTING PANEL FEEDERS TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.

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ELECTRICAL DEMO PLAN - LEVEL 1 AREA "A"

ED101

GENERAL DEMOLITION NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK & DASHED LINES. LIGHT & SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

   A. DISCONNECT AND REMOVE ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.

   B. RELOCATE, REWIRE, AND/OR RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.

   C. LEAVE ALL EXITING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.

   D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE, TAPE CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO, OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.

   E. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. INSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.

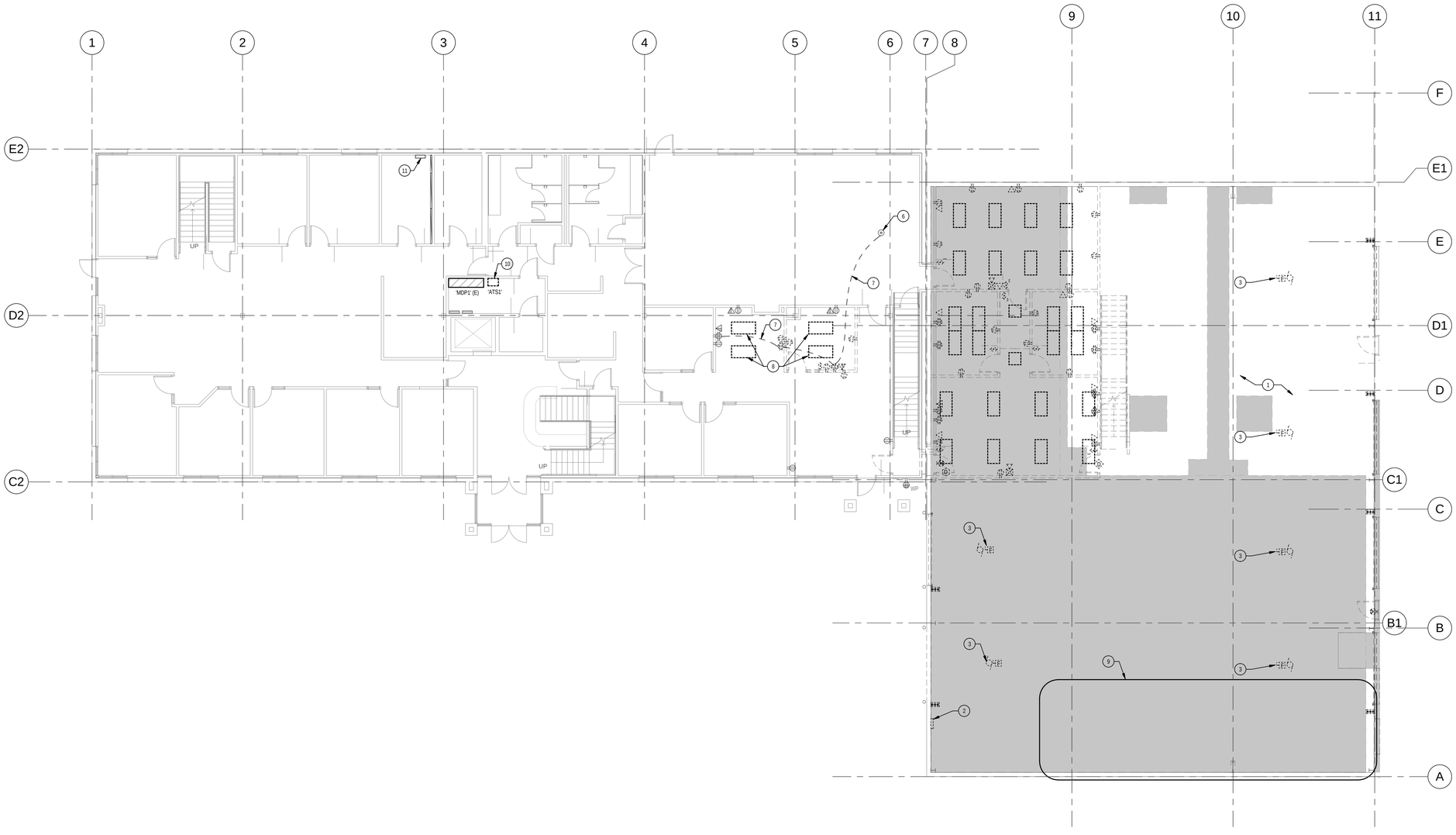
   F. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.

   G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.

   H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.

KEYED NOTES: (#)

1. REMOVE ALL ELECTRICAL EQUIPMENT IN THIS AREA WHETHER SHOWN OR NOT. REMOVE ALL ELECTICAL EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE.
2. REMOVE EXISTING PANEL. REMOVE ASSOCIATED FEEDER BACK TO SOURCE. (PS)
3. EXISTING OHD MOTOR TO BE REMOVED. DISCONNECT ANY AND ALL ASSOCIATED ELECTRICAL. REMOVE BACK TO THE SOURCE COMPLETE.
4. EXISTING OHD MOTOR TO REMAIN IN PLACE. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT BACK TO THE SOURCE. THE EXISTING CONDUIT AND DISCONNECT SHALL REMAIN TO BE REUSED IF POSSIBLE.
5. EXISTING OVERHEAD SWITCH TO REMAIN.
6. EXISTING FLOOR BOX TO REMAIN OPERATIONAL. EXISTING BRANCH CIRCUIT MAY BE AFFECTED FROM DEMOLITION ON ADJACENT OFFICE.
7. THIS BRANCH CIRCUIT NEEDS TO BE RECONNECTED AFTER THE DEMOLITION. THIS BRANCH CIRCUITING MAY BE ROUTED BELOW THE EXISTING FLOOR SLAB.
8. EXISTING LIGHT FIXTURES TO BE REMOVED AND STORED FOR REUSE.
9. REMOVE ALL ELECTRICAL EQUIPMENT (LIGHTS, WIRING DEVICES, CONDUIT, WIRE, ETC.) FROM EXISTING WOOD STRUCTURE THAT IS TO BE DEMOLISHED. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE COMPLETE.
10. EXISTING 400A ATS TO BE REMOVED AND RETURNED TO OWNER. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS.
11. EXISTING REMOTE GENERATOR ANNUNCIATOR TO BE REMOVED AND RETURNED TO OWNER. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS.



1 / ED102 LEVEL 1 DEMOLITION PLAN - AREA "B"
1/8" = 1'-0"

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Division of Facilities Construction and Management

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ELECTRICAL DEMO PLAN - LEVEL 1 AREA "B"

ED102

GENERAL DEMOLITION NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK & DASHED LINES. LIGHT & SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

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   B. RELOCATE, REWIRE, AND/OR RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.

   C. LEAVE ALL EXITING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.

   D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE, TAPE CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO, OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.

   E. EXISTING RACEWAYS MAY BE REUSED. IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. INSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.

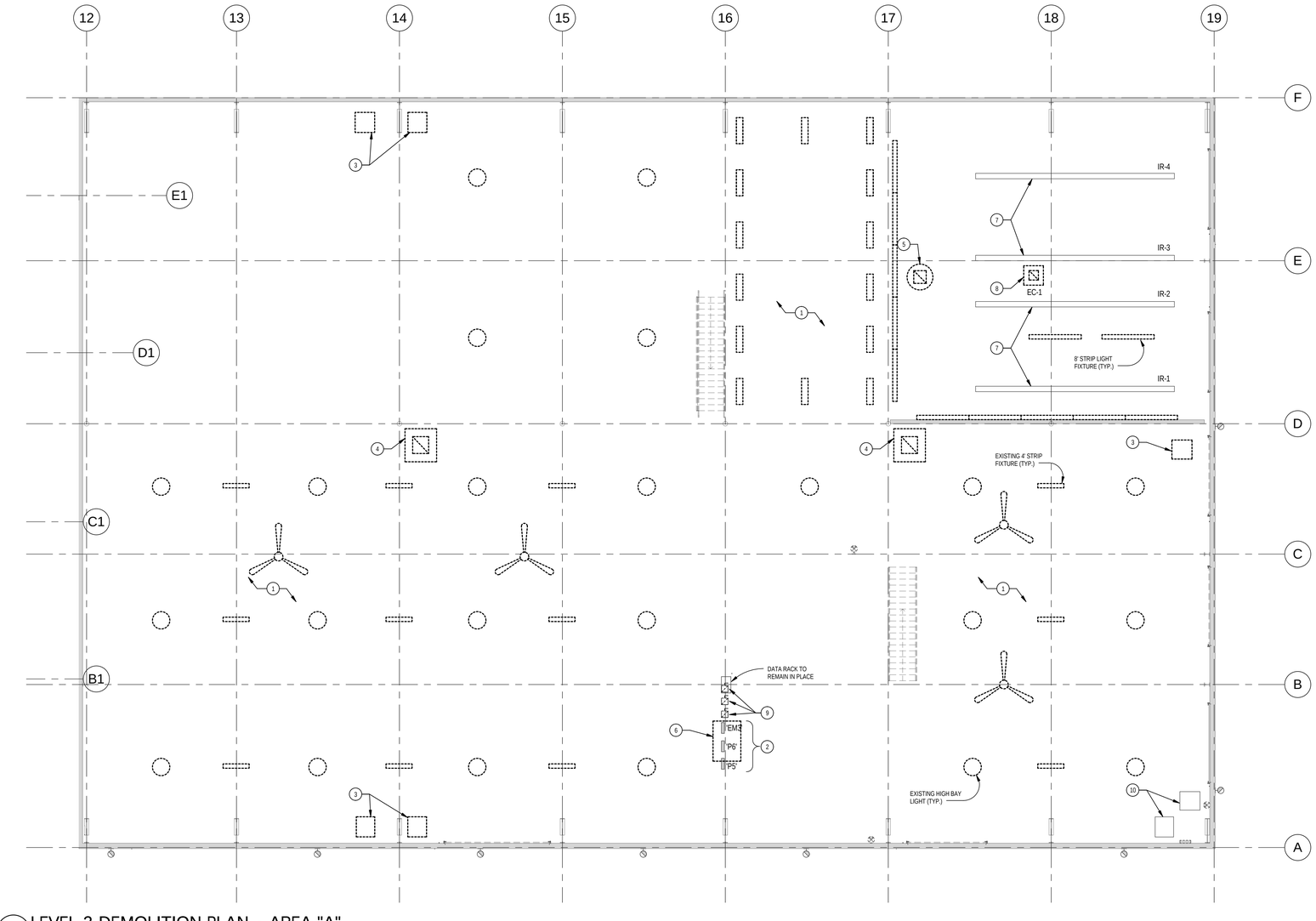
   F. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.

   G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.

   H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.

KEYED NOTES: (#)

1. REMOVE ALL ELECTRICAL EQUIPMENT IN THIS AREA COMPLETE.
2. EXISTING ELECTRICAL PANELS TO REMAIN. PROVIDE NEW TEMPORARY SUPPORT AS NECESSARY TO ALLOW PANELS TO REMAIN WHEN EXISTING WOOD MEZZANINE IS DEMOLISHED. TEMPORARY SUPPORT SHALL REMAIN UNTIL NEW STRUCTURE IS IN PLACE.
3. EXISTING UNIT HEATER TO BE REMOVED BY DIVISION 23 CONTRACTOR. THE DIVISION 26 CONTRACTOR SHALL DISCONNECT ALL ASSOCIATED ELECTRICAL AND REMOVE CONDUIT AND WIRE BACK TO THE SOURCE COMPLETE.
4. EXISTING EVAPORATIVE COOLER TO BE REMOVED BY DIVISION 23 CONTRACTOR. THE DIVISION 26 CONTRACTOR SHALL DISCONNECT ALL ASSOCIATED ELECTRICAL AND REMOVE CONDUIT AND WIRE BACK TO THE SOURCE COMPLETE.
5. EXISTING EXHAUST FAN TO BE REMOVED BY DIVISION 23 CONTRACTOR. THE DIVISION 26 CONTRACTOR SHALL DISCONNECT ALL ASSOCIATED ELECTRICAL AND REMOVE CONDUIT AND WIRE BACK TO THE SOURCE COMPLETE.
6. EXISTING ROOF-TOP UNIT TO BE REMOVED BY DIVISION 23 CONTRACTOR. THE DIVISION 26 CONTRACTOR SHALL DISCONNECT ALL ASSOCIATED ELECTRICAL AND REMOVE CONDUIT AND WIRE BACK TO THE SOURCE COMPLETE.
7. EXISTING RADIANT HEATER TO REMAIN. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUITING BACK TO SOURCE.
8. EXISTING EVAPORATIVE COOLER TO BE REMOVED AND REPLACED WITH NEW UNIT. DISCONNECT AND REMOVE ASSOCIATED DISCONNECT. MAINTAIN EXISTING BRANCH CIRCUITING TO RECONNECT TO NEW UNIT. REFER TO SHEET EP103 FOR ADDITIONAL INFORMATION.
9. EXISTING STARTERS TO BE REMOVED. THESE DEVICES MAY BE REUSED IF THERE IS A NEED.
10. EXISTING UNIT HEATERS TO REMAIN. DISCONNECT ASSOCIATED BRANCH CIRCUITING AND REMOVE ASSOCIATED DISCONNECTS.



1 ED103 LEVEL 2 DEMOLITION PLAN - AREA "A"
1/8" = 1'-0"

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ISSUED DATE:	3/19/2012

ELECTRIAL DEMO PLAN - LEVEL 2 AREA "A"

ED103

GENERAL DEMOLITION NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK & DASHED LINES. LIGHT & SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

   A. DISCONNECT AND REMOVE ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.

   B. RELOCATE, REWIRE, AND/OR RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.

   C. LEAVE ALL EXITING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.

   D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE, TAPE CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO. OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.

   E. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. INSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.

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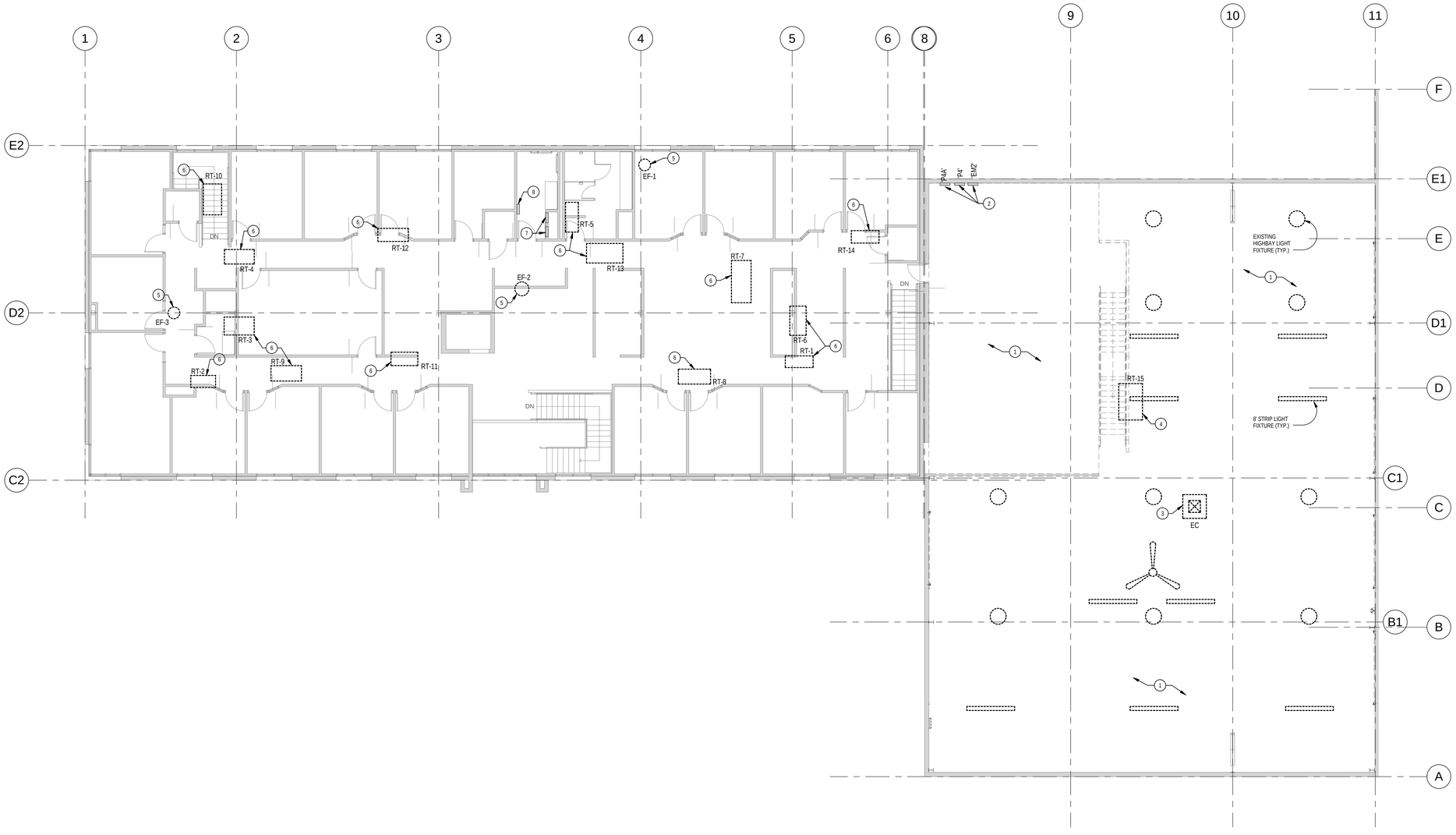
   G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.

   H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.

KEYED NOTES: (#)

1. REMOVE ALL ELECTRICAL EQUIPMENT IN THIS AREA WHETHER SHOWN OR NOT. REMOVE COMPLETE UNLESS SPECIFICALLY NOTED OTHERWISE.
2. EXISTING PANELS TO REMAIN. PROTECT FROM DAMAGE DURRING ALL PHASES OF CONSTRUCTION.
3. EXISTING EVAPORATIVE COOLER TO BE REMOVED BY DIVISION 23 CONTRACTOR. THE DIVISION 26 CONTRACTOR SHALL DISCONNECT ALL ASSOCIATED ELECTRICAL AND REMOVE CONDUIT AND WIRE BACK TO THE SOURCE COMPLETE.
4. EXISTING ROOF-TOP UNIT TO BE REMOVED BY DIVISION 23 CONTRACTOR. THE DIVISION 26 CONTRACTOR SHALL DISCONNECT ALL ASSOCIATED ELECTRICAL AND REMOVE CONDUIT AND WIRE BACK TO THE SOURCE COMPLETE.
5. EXISTING EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW UNIT. DISCONNECT AND REMOVE ASSOCIATED DISCONNECT. MAINTAIN THE EXISTING BRANCH CIRCUITING TO RECONNECT TO NEW UNIT. REFER TO SHEET EP104 FOR ADDITIONAL INFORMATION.
6. EXISTING ROOF-TOP UNIT TO BE REMOVED AND REPLACED WITH NEW UNIT. DISCONNECT AND REMOVE ASSOCIATED DISCONNECT. MAINTAIN THE EXISTING BRANCH CIRCUITING TO RECONNECT TO NEW UNIT. REFER TO SHEET EP104 FOR ADDITIONAL INFORMATION.
7. EXISTING ELECTRICAL PANELS TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
8. EXISTING DIMMING PANEL TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.



1 / ED104 LEVEL 2 DEMOLITION PLAN - AREA "B"
1/8" = 1'-0"

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3/19/12
STATE OF UTAH

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

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ENVISION PROJECT NO.:	2011-181.00
ISSUED DATE:	3/19/2012

ELECTRICAL DEMO PLAN - LEVEL 1 AREA "B"

ED104

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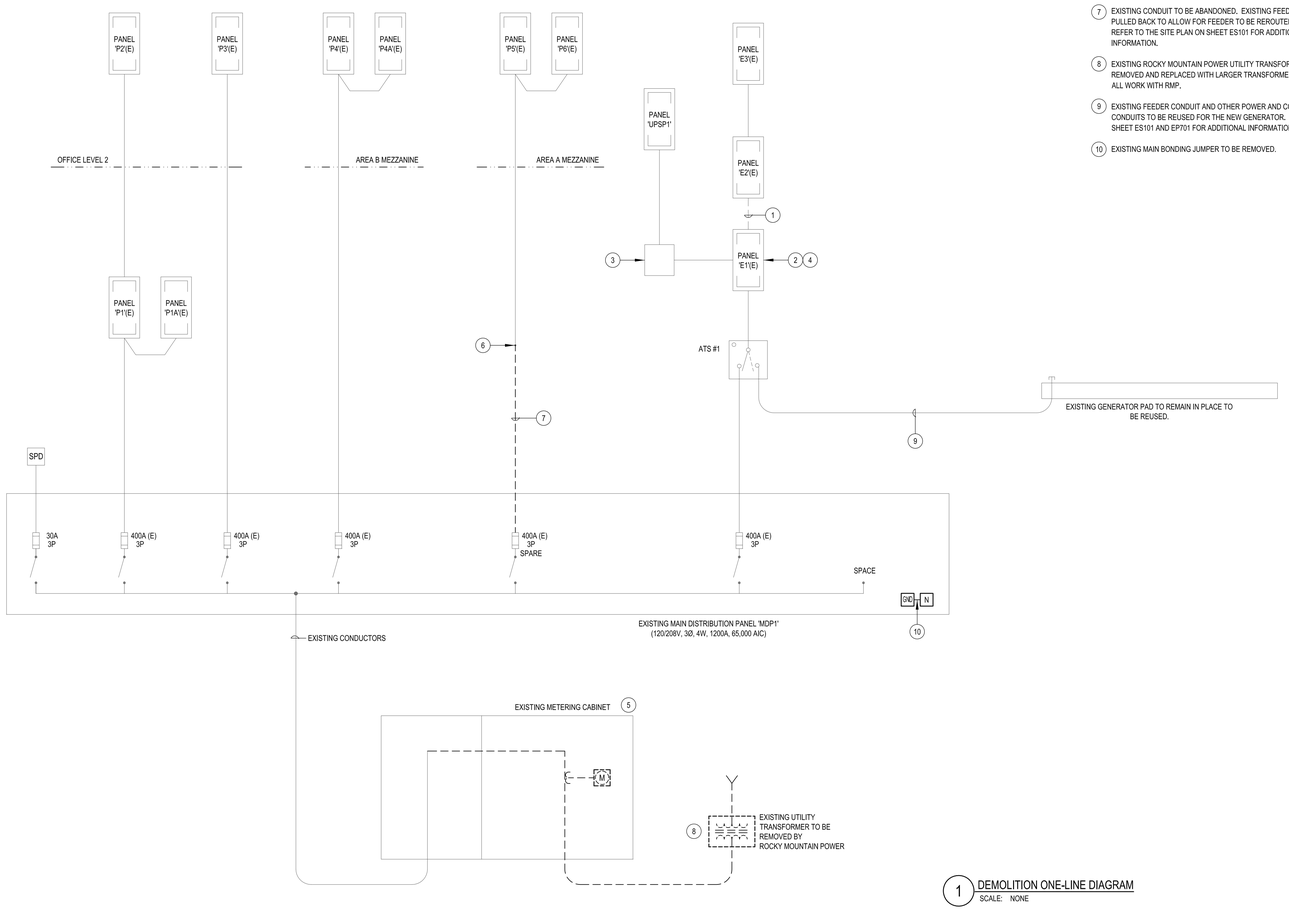

1 DEMOLITION ONE-LINE DIAGRAM
SCALE: NONE

KEYED NOTES:

1. REMOVE EXISTING FEEDER BETWEEN E1 & E2.
2. THIS PANEL SHALL BE RENAMED TO PANEL 'CP1'. REFER TO THE NEW ONE-LINE DIAGRAM ON SHEET EP701 FOR ADDITIONAL INFORMATION. PROVIDE A NEW MYCARTA LABEL.
3. EXISTING JUNCTION BOX LOCATED IN THE COMM./DATA ROOM. THIS BOX WAS USED TO EXTEND FEEDERS FROM THE UPS TO THE 'UPS1' PANEL AND TO EXISTING PANEL 'EM1'.
4. EXISTING CIRCUITS EM1-1, EM1-15, AND EM1-39 SHALL BE REMOVED FROM THIS PANEL AND EXTENDED TO EXISTING PANEL 'EM2' LOCATED IN THE AREA B MEZZANINE. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED. REFER TO PANEL SCHEDULE EM2 ON SHEET EP802 FOR ADDITIONAL INFORMATION.
5. EXISTING CURRENT TRANSFORMER (CT) CABINET TO REMAIN. REMOVE METER AND ALL ASSOCIATED METERING COMPONENTS. THIS CABINET SHALL BE USED AS A SPLICE CABINET TO ALLOW THE EXISTING SERVICE TO BE BACK FED FROM THE NEW SERVICE. REFER TO THE NEW ONE-LINE DIAGRAM ON SHEET EP701 FOR ADDITIONAL INFORMATION.
6. EXISTING FEEDER TO PANEL 'P5' SHALL BE INTERCEPTED AND REROUTED TO NEW MAIN DISTRIBUTION PANEL 'MDP2'. REFER TO THE NEW ONE-LINE DIAGRAM ON SHEET EP701 AND REFER TO THE SITE PLAN ON SHEET ES101 FOR ADDITIONAL INFORMATION.
7. EXISTING CONDUIT TO BE ABANDONED. EXISTING FEEDER TO BE PULLED BACK TO ALLOW FOR FEEDER TO BE REROUTED TO NEW 'MDP2'. REFER TO THE SITE PLAN ON SHEET ES101 FOR ADDITIONAL INFORMATION.
8. EXISTING ROCKY MOUNTAIN POWER UTILITY TRANSFORMER TO BE REMOVED AND REPLACED WITH LARGER TRANSFORMER. COORDINATE ALL WORK WITH RMP.
9. EXISTING FEEDER CONDUIT AND OTHER POWER AND CONTROL CONDUITS TO BE REUSED FOR THE NEW GENERATOR. REFER TO SHEET ES101 AND EP701 FOR ADDITIONAL INFORMATION.
10. EXISTING MAIN BONDING JUMPER TO BE REMOVED.

ONE-LINE SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PANEL 'A'	LIGHTING AND APPLIANCE PANEL BOARD		FUSE CUT OUT
PANEL 'A'	LOAD CENTER		DRAWOUT CIRCUIT BREAKER
	CIRCUIT BREAKER		
	CIRCUIT BREAKER & ENCLOSURE		MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
	FUSED SWITCH		THERMAL OVERLOAD
		C	RELAY/COIL
	MOTOR		NORMALLY CLOSED CONTACT
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		NORMALLY OPEN CONTACT
	DISCONNECT SWITCH	K	KEY INTERLOCK
	FUSED DISCONNECT SWITCH		COMBINATION FUSIBLE STARTER WITH THERMAL OVERLOAD
M	METER		
	CT TRANSFORMER		COMBINATION MCP STARTER WITH THERMAL OVERLOAD
	GROUNDING ELECTRODE & CONDUCTOR		
	AUTOMATIC TRANSFER SWITCH		ELECTRONIC CIRCUIT BREAKER
G	GENERATOR		
	GUTTER		ELECTRONIC CIRCUIT BREAKER WITH GROUND FAULT PROTECTION
	TRANSFORMER	GFP	
	POWER FACTOR CORRECTION CAPACITOR & ENCLOSURE	C	SHUNT TRIP CIRCUIT BREAKER
		PF	PHASE FAILURE RELAY
	CT CABINET PER UTILITIES REQUIREMENTS		MUSHROOM PUSH BUTTON
	PULLING SECTION PER UTILITIES REQUIREMENTS		
			ISOLATION BYPASS AUTOMATIC TRANSFER SWITCH

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THE GREAT SEAL OF THE STATE OF UTAH 1896

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ONE-LINE DIAGRAM

ED701

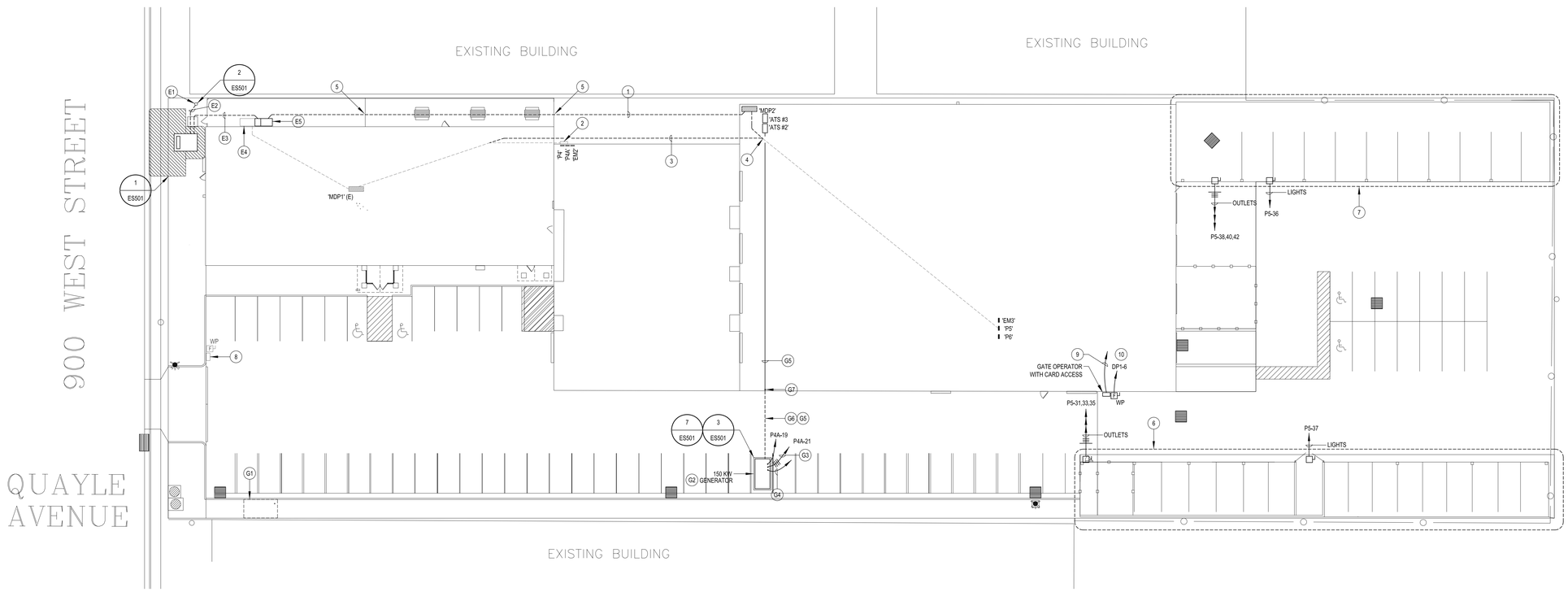
ROCKY MOUNTAIN POWER REPRESENTATIVE:
ALAN DRAPER
ALAN.DRAPER@PACIFICORP.COM
#801-220-7267

UTILITY COORDINATION REQUIREMENTS:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY ALL REQUIREMENTS AND LOCATIONS TO EXTEND CONDUITS FOR UTILITY USE WITHIN 2 WEEKS OF THE CONTRACT AWARD. THE CONTRACTOR SHALL NOT ROUGHIN ANY CONDUITS UNTIL THE UTILITY COORDINATION IS COMPLETE AND ALL LOCATIONS ARE KNOWN. THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT AND ENGINEER A WRITTEN, SIGNED STATEMENT, INCLUDING A SKETCH OF LOCATIONS, FROM THE UTILITY COMPANY NOTIFYING THEM THAT THEY HAVE COORDINATED AND VERIFIED ALL REQUIREMENTS. IF THE CONTRACTOR DOES NOT COORDINATE AND VERIFY THE REQUIREMENTS WITH THE UTILITIES OR PROVIDE A WRITTEN STATEMENT FROM THE UTILITY COMPANY TO THE ARCHITECT AND ENGINEER ALL CHANGES DUE TO LACK OF COORDINATION WILL BE DONE AT NO ADDITIONAL EXPENSE TO THE OWNER.

NOTE:

THE EXACT ROUTING OF ALL EXISTING FEEDERS THAT ARE SHOWN IS NOT KNOWN. THESE EXISTING CONDUITS SHOWN ARE ASSUMED LOCATIONS. THE CONTRACTOR SHALL VERIFY ALL ACTUAL ROUTINGS.



NORTH

ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

SITE KEYED NOTES:

ELECTRICAL SERVICE KEYED NOTES:

E1 EXISTING ROCKY MOUNTAIN POWER UTILITY POLE. COORDINATE ALL WORK WITH RMP TO PROVIDE NEW SERVICE FEED TO NEW TRANSFORMER.

E2 PROVIDE (1) 5" SCH 40 PVC CONDUIT WITH A 600-800 LB. TEST PULL ROPE BURIED 40" BELOW GRADE. CONFIRM ALL REQUIREMENTS WITH LOCAL POWER COMPANY PRIOR TO BID. COORDINATE ALL WORK IN THE FIELD WITH LOCAL POWER COMPANY.

E3 REFER TO ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR REQUIREMENTS AND OTHER INFORMATION.

E4 EXISTING CURRENT TRANSFORMER (CT) CABINET. REMOVE ALL METERING PROVISION AND USE FOR SPLICE CABINET.

E5 NEW CURRENT TRANSFORMER (CT) CABINET / MAIN BUILDING DISCONNECT. REFER TO THE ONE-LINE DIAGRAM FOR ALL REQUIREMENTS.

GENERATOR KEYED NOTES:

G1 EXISTING CONCRETE PAD TO BE DEMOLISHED. REMOVE ALL ASSOCIATED CONDUIT TO 12" BELOW GRADE. REPAIR LANDSCAPE AND PROVIDE NEW SOD TO MATCH SURROUNDING AREA.

G2 PROVIDE NEW 150 KW, 120/208V, 3Ø, 4W GENERATOR SET WITH SKID MOUNTED FUEL TANK TO SUPPORT 24 HOURS AT FULL LOAD AND LEVEL 1 SOUND ENCLOSURE. REFER TO ONE-LINE FOR ADDITIONAL INFORMATION AND REQUIREMENTS. UTILIZE SPRING ISOLATORS BETWEEN THE TANK AND GENERATOR.

G3 EXTEND (4) #8 THHN/THWN-2, CU CONDUCTORS FROM THE GENERATOR BLOCK HEATER TO PANEL CIRCUIT DESIGNATED. UTILIZE EXISTING 1-1/4" CONDUIT.

G4 EXTEND AN 1-1/4" CONDUIT WITH MANUFACTURER RECOMMENDED CABLE FOR GENERATOR CONTROL AND REMOTE ANNUCIATOR. EXTEND TO ATS #2 INSIDE THE BUILDING. REFER TO THE RISER DIAGRAM FOR ADDITIONAL INFORMATION.

G5 REFER TO THE ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

G6 SAW CUT EXISTING ASPHALT PARKING LOT AS NECESSARY TO EXTEND NEW GENERATOR FEEDERS TO BUILDING. PATCH AND REPAIR TO LIKE NEW CONDITION.

G7 AT THIS LOCATION, THE CONDUIT SHALL RISE UP AND RUN OVERHEAD TO THE NEW AUTOMATIC TRANSFER SWITCHES. THESE FEEDERS MAY BE RUN UNDER THE FLOOR SLAB IF THE EXISTING SLAB IS REMOVED FOR THE NEW CONSTRUCTION. CORE THROUGH THE EXISTING FOUNDATION AS NECESSARY TO EXTEND EMERGENCY FEEDERS INTO THE EXISTING BUILDING.

KEYED NOTES:

1 REFER TO THE ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTORS REQUIREMENTS.

2 EXISTING JUNCTION BOX ON THE EXTERIOR OF THE BUILDING. THE EXISTING FEEDER FOR PANEL 'P4' EXTENDS OUT OF THE BUILDING AND EXTENDS UP THE THIS EXISTING JUNCTION BOX. SHOWN FOR REFERENCE.

3 EXISTING FEEDER FOR PANEL 'P5' SHALL BE ABANDONED IN PLACE AT THIS LOCATION. THE EXISTING CONDUCTORS SHALL BE PULLED OUT AS NECESSARY TO ALLOW EXISTING FEEDER TO BE REROUTED TO THE NEW MAIN DISTRIBUTION PANEL 'MDP2'.

4 INTERCEPT THE EXISTING UNDERGROUND FEEDER FOR PANEL 'P5' IN ABOUT THIS LOCATION AND REROUTE TO NEW MAIN DISTRIBUTION PANEL 'MDP2'. PULL BACK CONDUCTORS AS NECESSARY TO ALLOW FEEDER TO BE REROUTED.

5 BORE UNDER EXISTING CONCRETE PATIO OR CUT AS NECESSARY TO EXTEND NEW SERVICE FEEDER TO NEW MAIN DISTRIBUTION PANEL 'MDP2'. PATCH AND REPAIR TO LIKE NEW CONDITION.

6 EXISTING ELECTRICAL EQUIPMENT (LIGHTS, OUTLETS, CARD ACCESS SYSTEM EQUIPMENT) LOCATED IN THE STRUCTURES ON THE SOUTH SIDE OF PROPERTY SHALL REMAIN IN PLACE AND OPERATIONAL. THE EXISTING CIRCUITS SHALL BE MAINTAINED FOR THESE LOADS. RE-FEED, REROUTE EXISTING CIRCUITS AS NECESSARY. THESE CIRCUITS MAY BE INTERRUPTED DUE TO THE REMOVAL OF THE MEZZANINE WHERE THE ELECTRICAL PANELS ARE LOCATED. RECONNECT AS NECESSARY TO ENSURE LOADS REMAIN ACTIVE.

7 EXISTING ELECTRICAL EQUIPMENT (LIGHTS, OUTLETS, CARD ACCESS SYSTEM EQUIPMENT) LOCATED IN THE STRUCTURES ON THE NORTH SIDE OF PROPERTY SHALL REMAIN IN PLACE AND OPERATIONAL. THE EXISTING CIRCUITS SHALL BE MAINTAINED FOR THESE LOADS. RE-FEED, REROUTE EXISTING CIRCUITS AS NECESSARY. THESE CIRCUITS MAY BE INTERRUPTED DUE TO THE REMOVAL OF THE MEZZANINE WHERE THE ELECTRICAL PANELS ARE LOCATED. RECONNECT AS NECESSARY TO ENSURE LOADS REMAIN ACTIVE.

8 EXISTING GATE OPERATOR TO REMAIN IN PLACE AND OPERATIONAL.

9 1" C. TO DATA RM 147 WITH PULL STRING.

10 CONNECTION TO GATE CONTROLLER. LOOP WORK TO BE BY GATE CONTROLLER SYSTEM CONTRACTOR.

SITE GENERAL NOTES:

1. PROVIDE ALL REQUIRED TRENCHING, BACKFILLING, ETC. FOR ALL CONDUITS. PROVIDE REQUIRED BACKFILL MATERIALS AS DIRECTED BY EACH UTILITY.
2. VERIFY ALL ROCKY MOUNTAIN POWER REQUIREMENTS PRIOR TO BID.
3. INCLUDE ALL RELATED UP FRONT COSTS AND FEES REQUIRED BY EACH UTILITY IN THE PROJECT BID. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, LINE EXTENSION FEES, RELOCATION AND REROUTING OF AERIAL LINES INTERFERING WITH NEW PROJECT, REQUIRED CONDUITS AND THEIR ROUTING, ETC.
4. COORDINATE INSTALLATION OF SERVICE UTILITY EQUIPMENT, WITH RESPECTIVE UTILITY REPRESENTATIVE.
5. ROUTE CONDUITS A MINIMUM OF 6" BELOW THE BUILDING FLOOR SLAB.

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ELECTRICAL SITE PLAN

ES101

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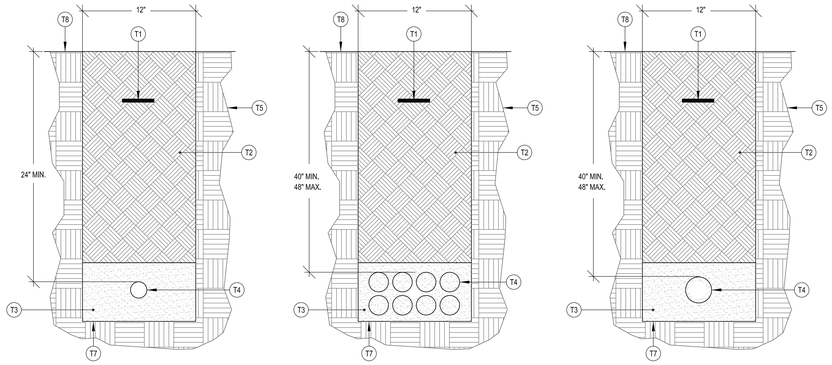
TRENCHING KEYED NOTES:

- T1 MARKER TAPE WITH THE WORDS, "CAUTION BURIED ELECTRIC CONDUITS BELOW" DIRECTLY OVER POWER CONDUITS 6" MINIMUM BELOW GRADE.
- T2 CLEAN BACKFILL CONTAINING NO ROCKS LARGER THAN 4" DIA.
- T3 BACKFILL MATERIAL WITHIN 4" OF THE CONDUIT SHALL PASS THRUOGH A 3/4" SIEVE FRAME AND CONTAIN LESS THAN 30 PERCENT ROCK SOLIDS BY VOLUME.
- T4 ALL CONDUITS SHOWN SHALL BE SCHEDULE 40 PVC.
- T6 UNDISTURBED EARTH.
- T7 MARKER TAPE WITH THE WORDS, "CAUTION BURIED DATA/COMMUNICATION CONDUIT BELOW" DIRECTLY OVER DATA/COMM CONDUITS.
- T8 TRENCHES SHALL BE A UNIFORM DEPTH FOR ENTIRE LENGTH OF TRENCH SO CONDUITS CAN SIT FLAT (HORIZONTAL) WITH THE GROUND.
- T9 FINISHED GRADE.

TRENCHING GENERAL NOTES:

1. PROVIDE PULL ROPES IN ALL CONDUITS.
2. HORIZONTAL AND VERTICAL SEPARATION BETWEEN CONDUIT SHALL BE MAINTAINED BY INSTALLING HIGH IMPACT SPACERS WITH HORIZONTAL INTERVALS OF EIGHT FEET.
3. ALL MARKER TAPE SHALL CONTAIN #10 TRACER WIRE.
4. VERIFY AND COMPLY WITH ALL ROCKY MOUNTAIN POWER AND QWEST REQUIREMENTS.



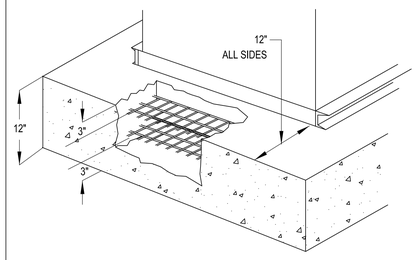
6 TRENCH DETAIL
SCALE: NONE
FEEDER/BRANCH CIRCUITS

5 TRENCH DETAIL
SCALE: NONE
ROCKY MOUNTAIN POWER SECONDARY

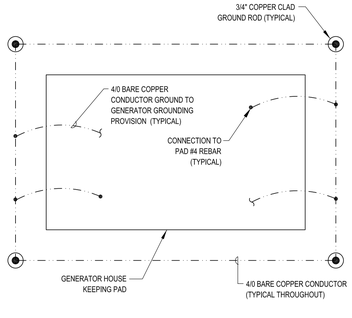
4 TRENCH DETAIL
SCALE: NONE
ROCKY MOUNTAIN POWER PRIMARY

MIXTURE OF CONCRETE (BY VOLUME) IS 1:3:4 OF CEMENT, SAND, AND AGGREGATE WITH A MAXIMUM FOUR INCH SLUMP WITH A 28 DAY COMPRESSION STRENGTH OF 3000 PSI (200MPa)

REINFORCEMENT METHOD IS TO PLACE TWO SETS OF NO. 6 REINFORCING BARS ON 12 INCH CENTERS HORIZONTALLY. BARS SHOULD CLEAR THE FOUNDATION SURFACE A MINIMUM OF 3 INCHES FROM THE TOP AND 3 INCHES FROM THE BOTTOM.



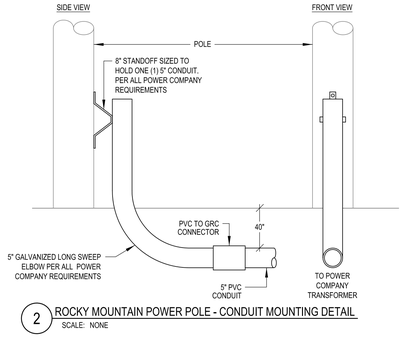
3 NEW GENERATOR PAD DETAIL
SCALE: NONE



7 GENERATOR PAD GROUNDING DETAIL
SCALE: NONE

UTILITY POLE REQUIREMENTS:

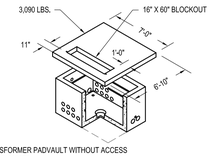
1. THE CONTRACTOR SHALL PROVIDE 1ST STANDOFF, LONG SWEEP GALVANIZED ELBOW, AND ADDITIONAL CONDUIT AS REQUIRED BY POWER COMPANY FOR A COMPLETE INSTALLATION. POWER COMPANY WILL INSTALL STANDOFFS AND CONDUIT ONTO POLE. COORDINATE ALL REQUIREMENTS WITH POWER COMPANY PRIOR TO ROUGHIN.



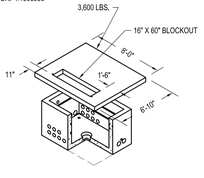
2 ROCKY MOUNTAIN POWER POLE - CONDUIT MOUNTING DETAIL
SCALE: NONE

OPTIONAL TOPS

2.4 - 25kV, 3-PHASE TRANSFORMER PADVAULT WITHOUT ACCESS
PCORP #7992601 - SI #1790024
2.4 - 25kV, 3-PHASE TRANSFORMER PAD ONLY (NO BASE)
PCORP #1790021

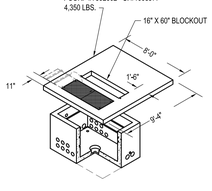


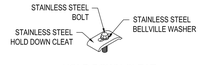
35kV, 3-PHASE TRANSFORMER PADVAULT WITHOUT ACCESS
PCORP #7992603 - SI #1008975
35kV, 3-PHASE TRANSFORMER PAD ONLY (NO BASE)
PCORP #1008958



2.4 - 25kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS, STOCK ITEM 7992600 -STOCK ITEM 1790023
2.4 - 25kV, 3-PHASE TRANSFORMER PADVAULT WITHOUT ACCESS, STOCK ITEM 7992601 -STOCK ITEM 1790024
2.4 - 25kV, 3-PHASE TRANSFORMER PAD, STOCK ITEM 1790021
35kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS, STOCK ITEM 7992602 -STOCK ITEM 1008977
35kV, 3-PHASE TRANSFORMER PADVAULT WITHOUT ACCESS, STOCK ITEM 7992603 -STOCK ITEM 1008975
35kV, 3-PHASE TRANSFORMER PAD, STOCK ITEM 1008958

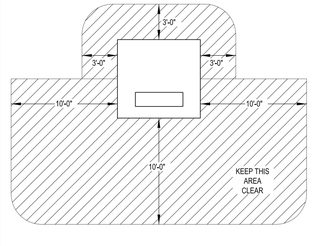
35kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS
PCORP #7992602 - SI #1008977
4,350 LBS.

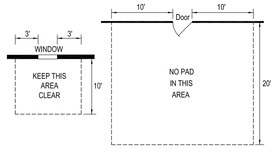


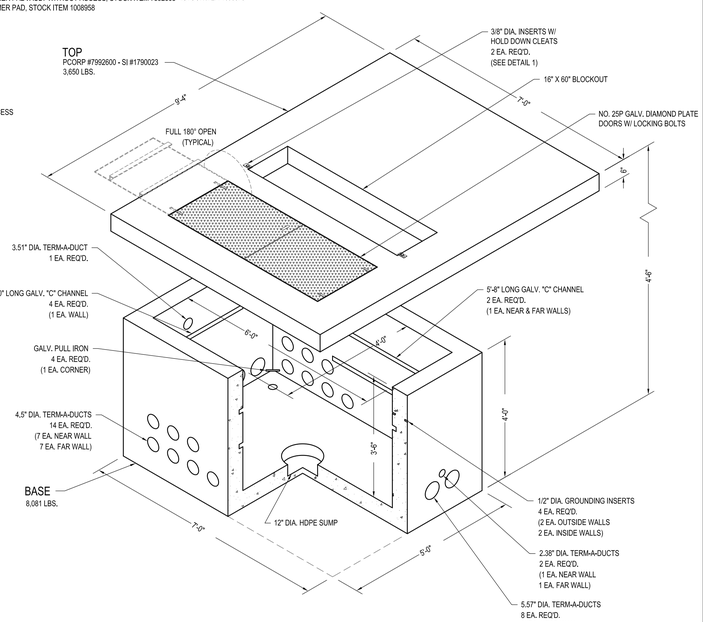


HOLD DOWN CLEAT DETAIL 1

1 1/4" X 2 1/2" STAINLESS STEEL HOLD-DOWN CLEAT - 2 REQ'D.
3/8" X 1 1/4" STAINLESS STEEL BOLT - 2 REQ'D.
3/8" STAINLESS STEEL BELLVILLE WASHER - 2 REQ'D.







NOTE:

PROVIDE THE REQUIRED TRANSFORMER PAD AS DIRECTED BY ROCKY MOUNTAIN POWER.

1 ROCKY MOUNTAIN POWER TRANSFORMER PAD VAULT DETAIL
SCALE: NONE

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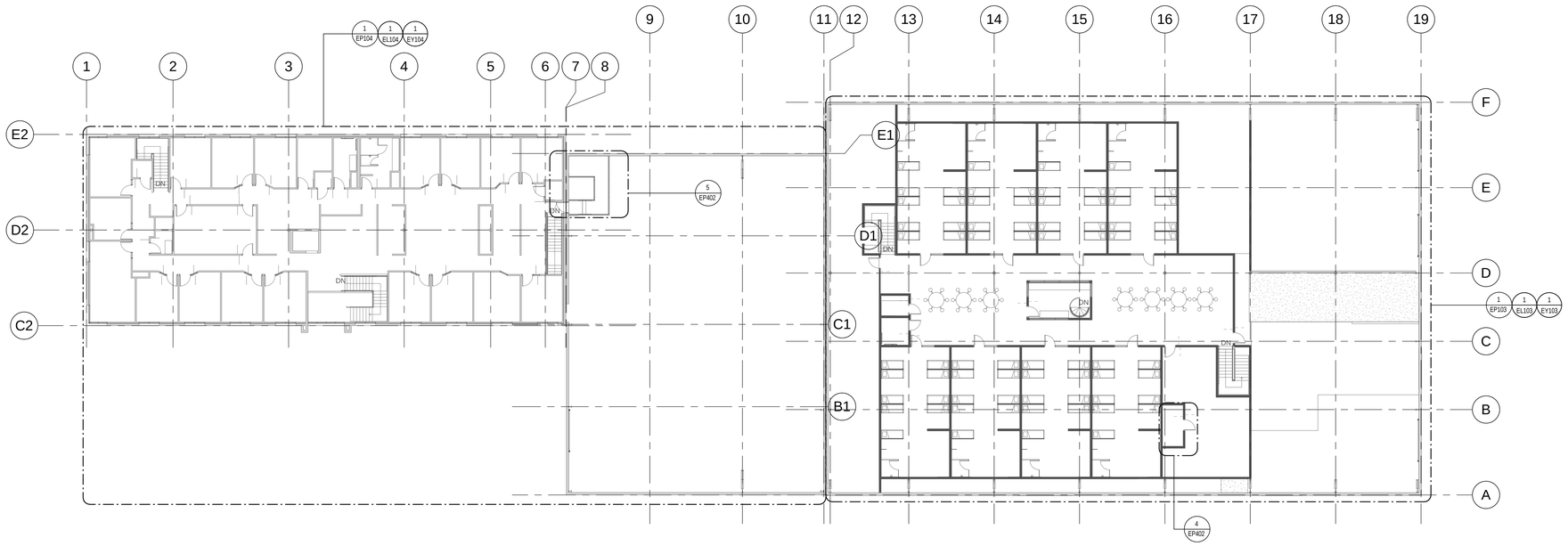
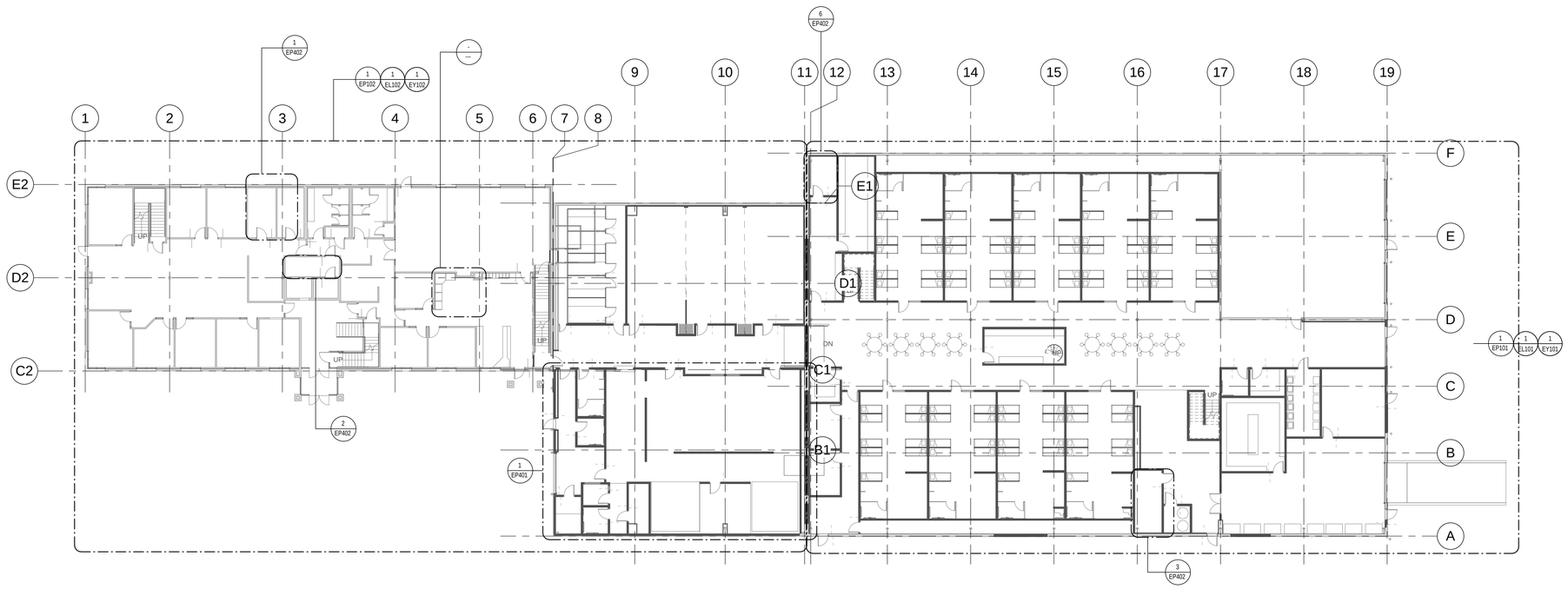
DETAILS

ES501



2 EE100 LEVEL 2 OVERALL ELECTRICAL PLAN
1/16" = 1'-0"



1 EE100 LEVEL 1 OVERALL ELECTRICAL PLAN
1/16" = 1'-0"

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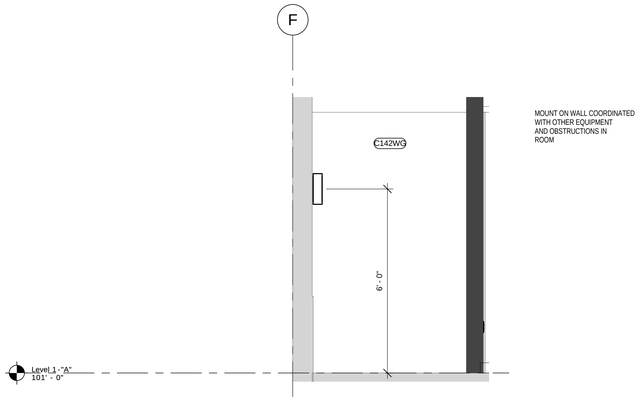
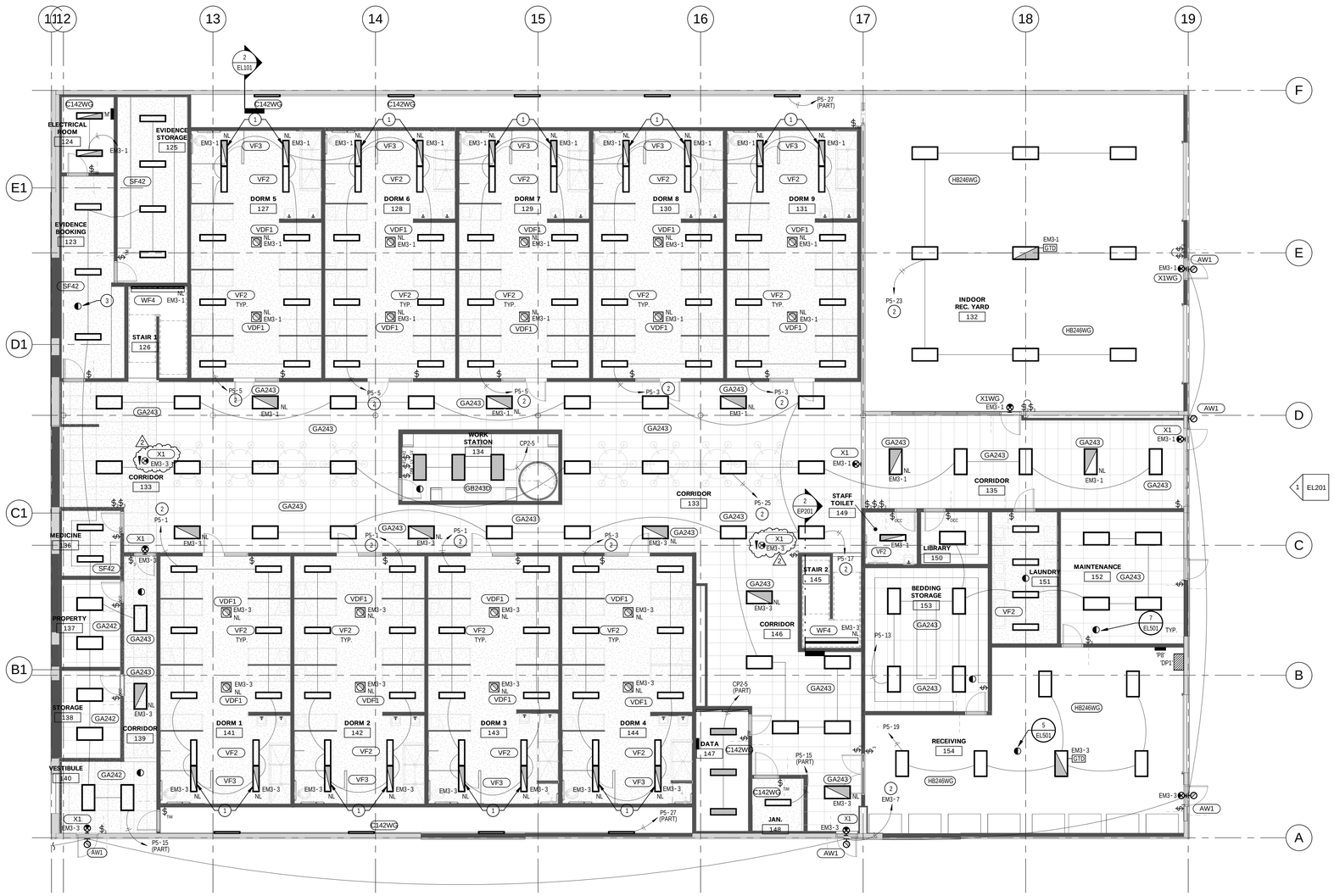
OVERALL ELECTRICAL PLANS - LEVEL 1 & LEVEL 2

EE100



2 EL101 MECHANICAL CHASE LIGHT FIXTURE MOUNTING DETAIL
1/2" = 1'-0"



1 EL101 LEVEL 1 LIGHTING PLAN - AREA "A"
1/8" = 1'-0"

GENERAL NOTES:

1. LIGHTS TO BE SUPPORTED FROM CEILING SUPPORT STRUCTURE, NOT FROM OLD WAREHOUSE STRUCTURE.

KEYED NOTES: (·)

1. 1 LAMP AND BALLAST TO BE CONNECTED TO EMERGENCY CIRCUIT UNSWITCHED HOT FOR NIGHTLIGHT.
2. ROUTE CIRCUIT THROUGH RELAY PANEL.
3. LOCATE POWER PACK FOR OCCUPANCY SENSOR IN ACCESSIBLE CEILING SPACE OUT IN CORRIDOR 133.

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2	2012-04-10	PERMIT REVIEW

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PROFESSIONAL ENGINEER DAVID P. WHITTON No. 284397 3/19/12 STATE OF UTAH

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	MCC
CHECKED BY:	DPW
OWNER PROJECT NO.:	
ENVISION PROJECT NO.:	2011-181.00
ISSUED DATE:	3/19/2012

LIGHTING PLAN - LEVEL 1 AREA "A"

EL101

GSBS ARCHITECTS

375 WEST 200 SOUTH
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P 801.521.8600
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www.gsbsarchitects.com

KEYED NOTES: #

1. ROUTE CIRCUIT THROUGH RELAY PANEL.
2. EXTEND EMERGENCY LIGHTING CIRCUIT FROM OFFICE BUILDING TO PANEL 'EM2' FOR LEVEL 1 & LEVEL 2 LIGHTS. INTERCEPT AT EXISTING PANEL 'CP1'. FORMERLY 'E1'.
3. REINSTALL FIXTURES INTO NEW CEILING GRID.

REVISIONS:

2	2012-04-10	PERMIT REVIEW

ENVISION ENGINEERING
Direction. Then Velocity.
244 West 300 North, Suite 100
Salt Lake City, Utah 84103
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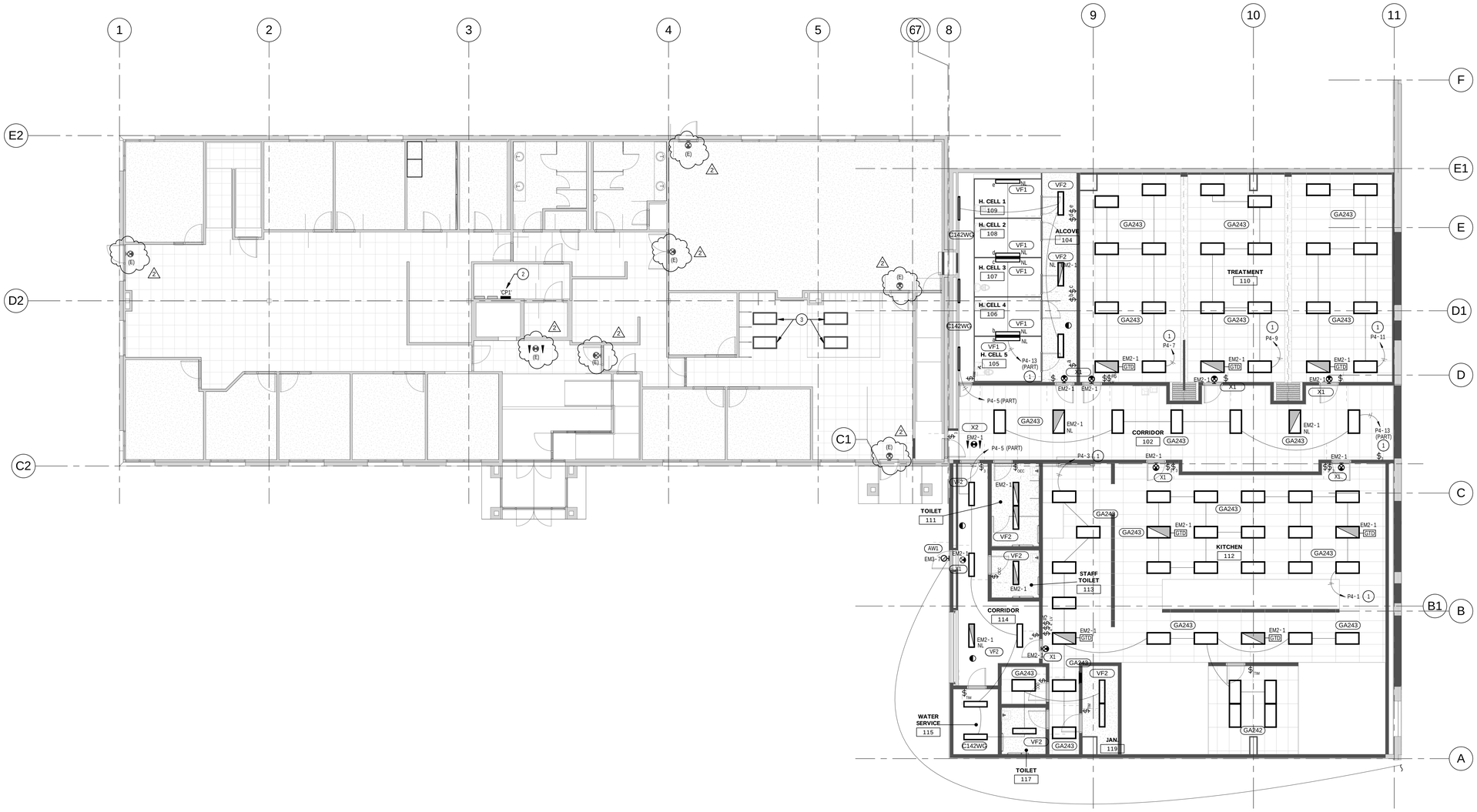

1 EL102 LEVEL 1 LIGHTING PLAN - AREA "B"
1/8" = 1'-0"

PAROLE VIOLATOR CENTER

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Salt Lake City, Utah

Division of Facilities Construction and Management

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ENVISION PROJECT NO.:	2011-181.00
ISSUED DATE:	3/19/2012

LIGHTING PLAN - LEVEL 1 AREA "B"

EL102

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KEYED NOTES: (#)

1. 1 LAMP AND BALLAST TO BE CONNECTED TO EMERGENCY CIRCUIT UNSWITCHED HOT FOR NIGHTLIGHT.
2. ROUTE CIRCUIT THROUGH RELAY PANEL.
3. COORDINATE LIGHT FIXTURE MOUNTING LOCATION WITH MECHANICAL EQUIPMENT IN ROOM.

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1 EL103 LEVEL 2 LIGHTING PLAN - AREA "A"
1/8" = 1'-0"

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LIGHTING PLAN - LEVEL 2 AREA "A"

EL103

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REVISIONS:

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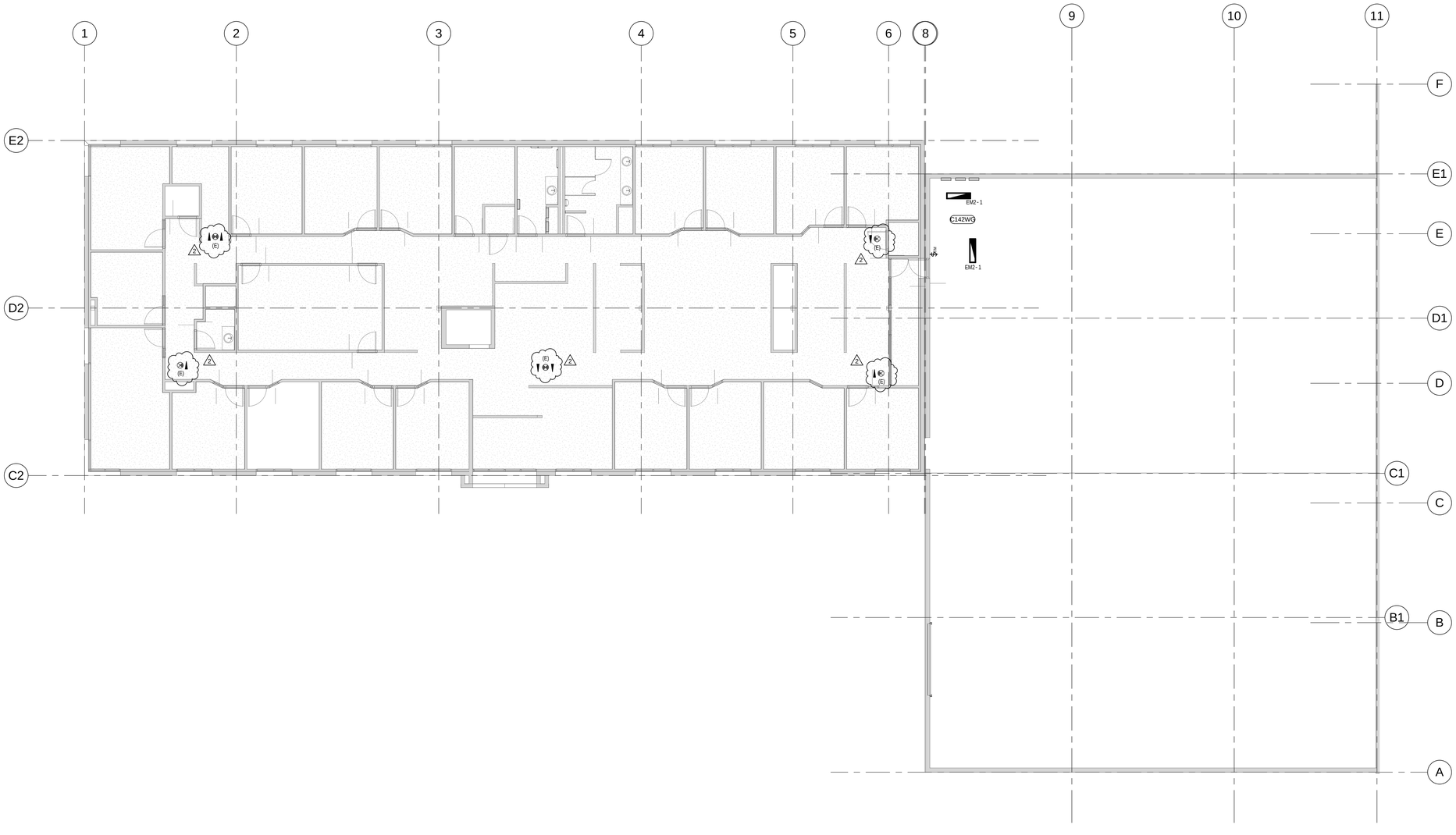

1 EL104 LEVEL 2 LIGHTING PLAN - AREA "B"
1/8" = 1'-0"

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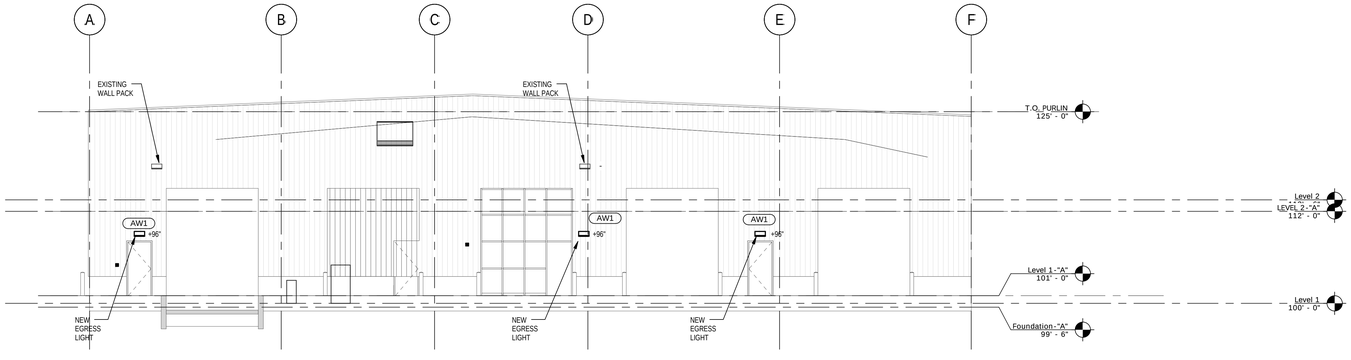
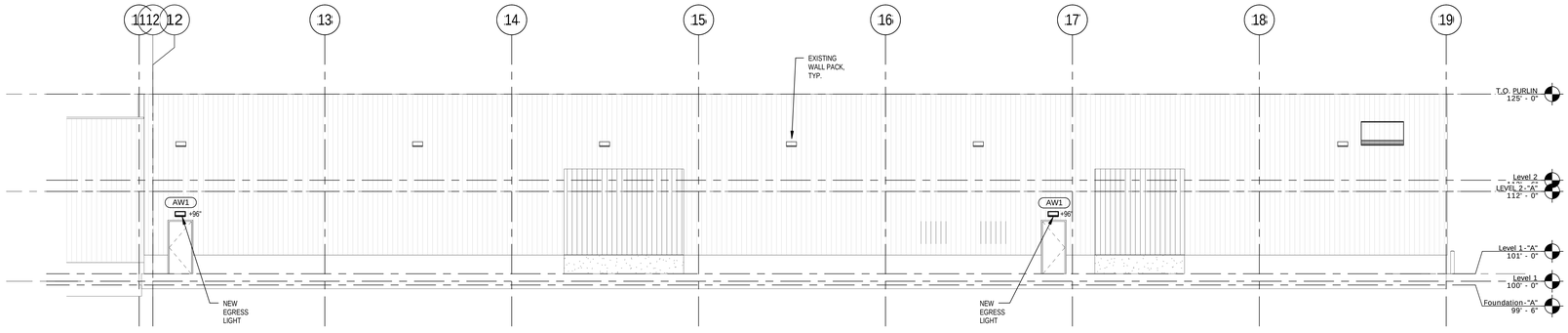
LIGHTING PLAN - LEVEL 2 AREA "B"

EL104



1 EL201 EXTERIOR ELEVATION EAST
1/8" = 1'-0"



2 EL201 EXTERIOR ELEVATION SOUTH
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
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EXTERIOR ELEVATIONS

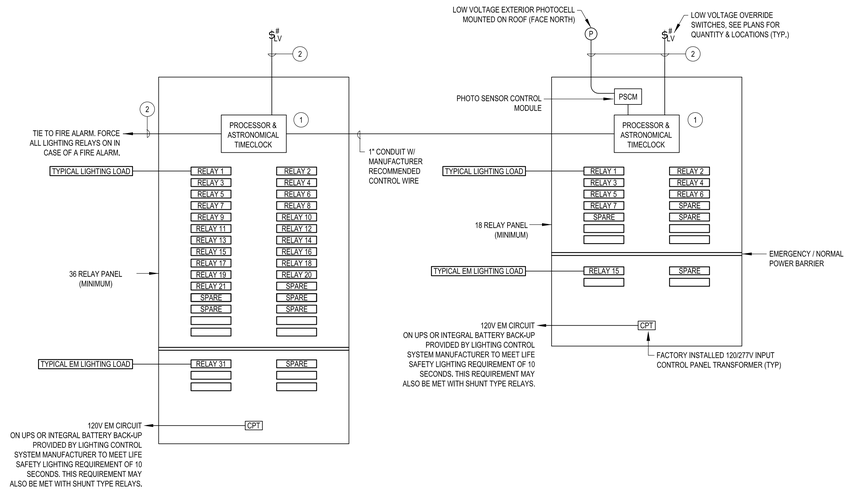
EL201

GENERAL NOTES:

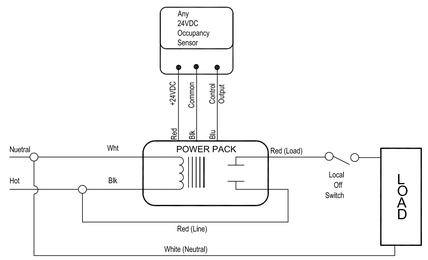
1. REFER TO SPECIFICATIONS FOR LIGHTING CONTROL SYSTEM PROGRAMMING AND COMMISSIONING REQUIREMENTS.

KEYED NOTES: (-)

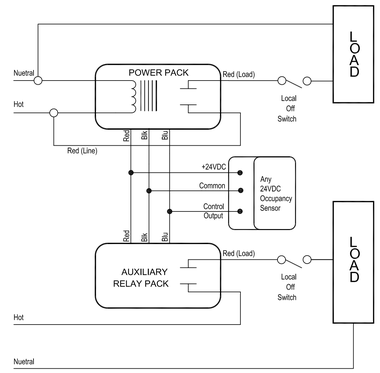
1. REFER TO LIGHTING PLANS AND RELAY SCHEDULE ON EL601 FOR CIRCUITING INFORMATION.
2. 3/4" CONDUIT WITH CONTROL WIRING AS PER MANUFACTURER'S RECOMMENDATIONS.



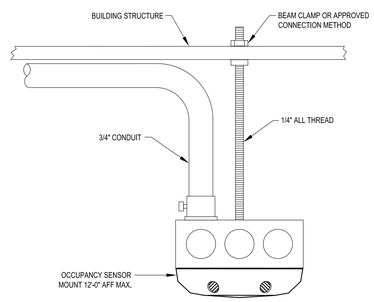
8 BUILDING LIGHTING CONTROL SYSTEM RISER DIAGRAM
SCALE: NONE



7 OCCUPANCY SENSOR CONTROL DIAGRAM - TYPICAL ROOM
SCALE: NONE



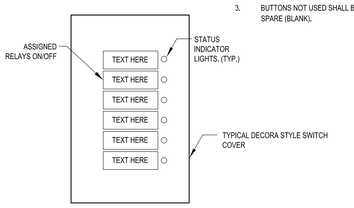
6 OCCUPANCY SENSOR DUAL CIRCUIT WIRING DIAGRAM
SCALE: NONE



5 OPEN STRUCTURE OCCUPANCY SENSOR MOUNTING DETAIL
SCALE: NONE
TYPICAL TO CORRIDOR 114, RECEIVING 154

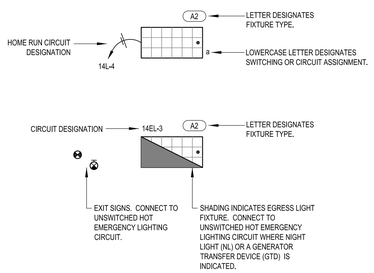
LOW VOLTAGE SWITCH NOTES:

1. PROGRAM SYSTEM PER OWNER'S DIRECTION.
2. PROVIDE ENGRAVED BUTTON LABELING AS DIRECTED BY OWNER.
3. BUTTONS NOT USED SHALL BE PROVIDED AS SPARE (BLANK).

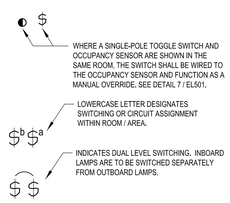


*LABELING AND CONFIGURATION SHOWN FOR REFERENCE AND FUNCTION. CONTRACTOR TO LABEL PER OWNERS DIRECTION. TYPICAL FOR ALL LOW VOLTAGE SWITCHES.

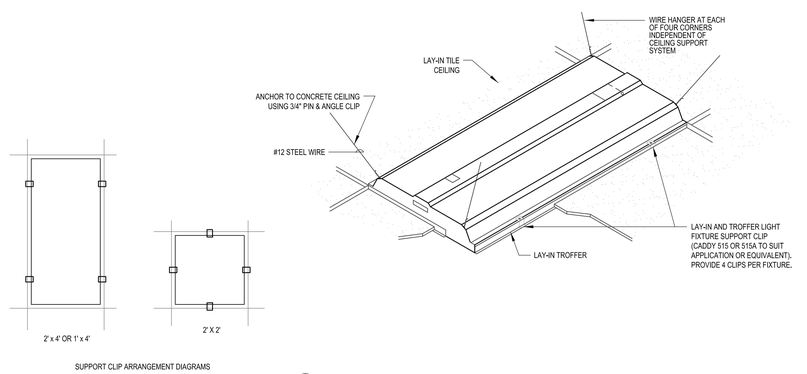
4 LOW VOLTAGE SWITCH DETAIL $\$^{\#}_{LV}$
SCALE: NONE



3 TYPICAL LIGHT FIXTURE CONVENTION
SCALE: NONE



2 TYPICAL SWITCHING CONVENTIONS
SCALE: NONE



SUPPORT CLIP ARRANGEMENT DIAGRAMS

1 LIGHT FIXTURE SUPPORT DETAIL
SCALE: NONE

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LIGHTING DETAILS

EL501

LIGHTING CONTROL PANEL SCHEDULE

Manuf / Cat Number	
Panel Name:	LCP1
Location:	LEVEL 2 AREA B MEZZANINE
Transformer Voltage:	120
Mounting:	SURFACE
NEMA Type:	1 STANDARD

Relay No.	Circuit Breaker	Load Controlled	Input Device	Programming Requirements
1	P4-1	KITCHEN 112 LIGHTS	Switch 5	A
2	P4-3	KITCHEN 112 LIGHTS	Switch 5	A
3	P4-7	TREATMENT 110 LIGHTS	Switch 6	A
4	P4-9	TREATMENT 110 LIGHTS	Switch 6	A
5	P4-11	TREATMENT 110 LIGHTS	Switch 6	A
6	P4-13	CORRIDOR 102 LIGHTS		B
7	P4-13	HOLDING CELL LIGHTS		B
8	20A-1P	SPARE RELAY		
9	20A-1P	SPARE RELAY		
10	20A-1P	SPARE RELAY		
11	20A-1P	SPACE		
12	20A-1P	SPACE		
13	20A-1P	SPACE		
14	20A-1P	SPACE		
15	EM2-3	EXTERIOR EGRESS LIGHTS		F
16	20A-1P	SPARE RELAY		
17	20A-1P	SPACE		
18	20A-1P	SPACE		

PROVIDE EMERGENCY POWER SOURCE BARRIER IN PANEL (between relays 14 and 15)

Programming Requirements

A	TIME ON (6:00 AM) - TIME OFF (7:00 PM), 2 HOUR OVERRIDE AT LOW VOLTAGE SWITCH
B	TIME ON (5:00 AM) - TIME OFF (10:00 PM)
C	MANUAL ON - TIME OFF (5:30 PM)
D	MANUAL ON - MANUAL OFF - SWEEP OFF AT END OF DAY (5:30 PM)
E	TIME ON (7:30 AM) - MANUAL OFF - SWEEP OFF AT END OF DAY (5:30 PM)
F	PHOTO CELL ON - PHOTO CELL OFF
G	PHOTO CELL ON - TIMED OFF (12:00 AM)
H	
I	
J	

NOTES: COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT START AND END TIMES PRIOR TO THE FINAL PROGRAMMING OF THE LIGHTING CONTROL SYSTEM.

LIGHTING CONTROL PANEL SCHEDULE

Manuf / Cat Number	
Panel Name:	LCP2
Location:	
Transformer Voltage:	120
Mounting:	SURFACE
NEMA Type:	1 STANDARD

Relay No.	Circuit Breaker	Load Controlled	Input Device	Programming Requirements
1	P5-1	DORM 1	Switch 1	A
2	P5-1	DORM 2	Switch 1	A
3	P5-1	DORM 3	Switch 1	A
4	P5-3	DORM 4	Switch 1	A
5	P5-5	DORM 5	Switch 1	A
6	P5-5	DORM 6	Switch 1	A
7	P5-5	DORM 7	Switch 2	A
8	P5-3	DORM 8	Switch 2	A
9	P5-3	DORM 9	Switch 2	A
10	P5-7	DORM 10	Switch 3	A
11	P5-7	DORM 11	Switch 3	A
12	P5-7	DORM 12	Switch 3	A
13	P5-9	DORM 13	Switch 3	A
14	P5-11	DORM 14	Switch 3	A
15	P5-11	DORM 15	Switch 3	A
16	P5-11	DORM 16	Switch 4	A
17	P5-9	DORM 17	Switch 4	A
18	P5-25	MAIN CORRIDOR 133 LEVEL 1	Switch 2	B
19	P5-17	MAIN CORRIDOR 133 LEVEL 1	Switch 2	B
20	P5-21	MAIN CORRIDOR 200 LEVEL 2	Switch 4	B
21	P5-23	INDOOR RECREATION YARD	Switch 2	A
22	20A-1P	SPARE RELAY		
23	20A-1P	SPARE RELAY		
24	20A-1P	SPARE RELAY		
25	20A-1P	SPARE RELAY		
26	20A-1P	SPACE		
27	20A-1P	SPACE		
28	20A-1P	SPACE		
29	20A-1P	SPACE		
30	20A-1P	SPACE		
31	EM3-7	EXTERIOR LIGHTING		F
32	20A-1P	SPARE RELAY		
33	20A-1P	SPARE RELAY		
34	20A-1P	SPACE		
35	20A-1P	SPACE		
36	20A-1P	SPACE		

PROVIDE EMERGENCY POWER SOURCE BARRIER IN PANEL (between relays 30 and 31)

Programming Requirements

A	TIME ON (6:00 AM) - TIME OFF (7:00 PM), 2 HOUR OVERRIDE AT LOW VOLTAGE SWITCH
B	TIME ON (5:00 AM) - TIME OFF (10:00 PM)
C	MANUAL ON - TIME OFF (5:30 PM)
D	MANUAL ON - MANUAL OFF - SWEEP OFF AT END OF DAY (5:30 PM)
E	TIME ON (7:30 AM) - MANUAL OFF - SWEEP OFF AT END OF DAY (5:30 PM)
F	PHOTO CELL ON - PHOTO CELL OFF
G	PHOTO CELL ON - TIMED OFF (12:00 AM)
H	
I	
J	

NOTES: COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT START AND END TIMES PRIOR TO THE FINAL PROGRAMMING OF THE LIGHTING CONTROL SYSTEM.

LOW VOLTAGE PUSH BUTTON SCHEDULE

NO.	SWITCH CONFIGURATION	BUTTON	RELAYS CONTROLLED	FUNCTION	LOCATION
1	6-BUTTON	B-1	LCP2-1	ON/OFF	WORK STATION 134
		B-2	LCP2-2	ON/OFF	
		B-3	LCP2-3	ON/OFF	
		B-4	LCP2-4	ON/OFF	
		B-5	LCP2-5	ON/OFF	
		B-6	LCP2-6	ON/OFF	
2	6-BUTTON	B-1	LCP2-7	ON/OFF	WORK STATION 134
		B-2	LCP2-8	ON/OFF	
		B-3	LCP2-9	ON/OFF	
		B-4	LCP2-21	ON/OFF	
		B-5	LCP2-18,19	ON/OFF	
		B-6	LCP2-1 TO 9	ON/OFF	
3	6-BUTTON	B-1	LCP2-10	ON/OFF	WORK STATION 201
		B-2	LCP2-11	ON/OFF	
		B-3	LCP2-12	ON/OFF	
		B-4	LCP2-13	ON/OFF	
		B-5	LCP2-14	ON/OFF	
		B-6	LCP2-15	ON/OFF	
4	6-BUTTON	B-1	LCP2-16	ON/OFF	WORK STATION 201
		B-2	LCP2-17	ON/OFF	
		B-3	SPARE		
		B-4	SPARE		
		B-5	SPARE		
		B-6	LCP2-10 TO 17	ON/OFF	
5	2-BUTTON	B-1	LCP1-1,2	ON/OFF	KITCHEN
		B-2	SPARE		
6	2-BUTTON	B-1	LCP1-3,4,5	ON/OFF	TREATMENT
		B-2	SPARE		

FINAL PROGRAMMING TO BE COORDINATED WITH OWNER DURING TRAINING

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG#	DESCRIPTION	VOLTAGE	LOAD (VA)	MOUNTING	LAMPS NO.	LAMPS TYPE	LAMPS WATTS	LAMPS COLOR (KELVIN)	LAMPS CRI	REMARKS
AW1	COOPER LITHONIA HUBBELL PHILLIPS	IST-B01-LED-E1-BL4-SFBA ALXW SERIES TRP SERIES WTM SERIES	ARCHITECTURAL WALL PACK - LED TRAPEZOIDAL - SMALL BOD: SOURCE: 21 LEDs AT 350mA MUST HAVE FIELD REPLACEABLE LED MODULE	120	27	SURFACE MOUNT	ARRAY	LED	27	4200		
C142WG	COLUMBIA COOPER LITHONIA HEWILLIAMS LIGHTOLIER	CS4-232-EPU-CSWG4 SS-232-UNV-ER81-WG/SS4FT-B C-2-32-MVOLT-GEB10RS-WGCUN 77-4-232-WG11-8LHEB2-VBY-277 SW4S232HPF-UNV-HI	STRAIGHT SIDED UTILITY CANNEL, LENGTH-4 ' PROGRAM START ELECTRONIC BALLAST(S): QTY: 1; THD: <10% OPTIONS: WIRE GUARD, CHAIN HANGING ASSEMBLY	120	58	CHAIN HANG	2	48" LINEAR T8 FLUORESCENT	32	3500	85	
GA142	COLUMBIA METALUX LITHONIA HEWILLIAMS LIGHTOLIER	ST824-232-FSA12125-EPU 2GC8-232A125-UNV-ER81 2SP8-G-2-32-A12125-MVOLT-GEB10RS 50G-S24-232-SA12125-8LHEB2 XP2GVI232-UNV-HI	SPECIFICATION TROFFER , 1X4 2-LAMP T8 STEEL FRAME, ACRYLIC LENS PAT #12 x .125" BALLAST TYPE: FB1 / NUMBER OF BALLASTS: 1	120	58	GRID	2	48" LINEAR T8 FLUORESCENT	32	3500	85	
GA242	COLUMBIA METALUX LITHONIA HEWILLIAMS LIGHTOLIER	ST824-232-FSA12125-EPU 2GC8-232A125-UNV-ER81 2SP8-G-2-32-A12125-MVOLT-GEB10RS 50G-S24-232-SA12125-8LHEB2 XP2GVI232-UNV-HI	SPECIFICATION TROFFER , 2X4 2-LAMP T8 STEEL FRAME, ACRYLIC LENS PAT #12 x .125" BALLAST TYPE: FB1 / NUMBER OF BALLASTS: 1	120	58	GRID	2	48" LINEAR T8 FLUORESCENT	32	3500	85	
GA243	COLUMBIA METALUX LITHONIA HEWILLIAMS LIGHTOLIER	ST824-332-FSA12125-EPU 2GC8-332A125-UNV-ER81 2SP8-G-3-32-A12125-MVOLT-GEB10RS 50G-S24-332-SA12125-8LHEB3 XP2GVI332-UNV-H3	SPECIFICATION TROFFER , 2X4 3-LAMP T8 STEEL FRAME, ACRYLIC LENS PAT #12 x .125" BALLAST TYPE: FB2 / NUMBER OF BALLASTS: 1	120	84	GRID	3	48" LINEAR T8 FLUORESCENT	32	3500	85	
GB243D	LEDALITE PINNACLE AXIS MARK DAYOLITE CORELITE	3342-D1-ST-T232-S-1-X-X CJ24A-2T8-G1-UNV-1D-W DAYF-2X4-S-T8-2-W-UNV-D-1-TB* WHS 24 232 EDB 277 SW/SW HM-P-P-2T8-G-24-W-UNV-DIM*LU R3-W-L-2-T8-1-D-UNV-24-T1	ARCHITECTURAL VOLUMETRIC TROFFER - DIMMABLE SATIN LENS BALLAST TYPE: FBD1 / NUMBER OF BALLASTS: 1	120	96	GRID	3	48" LINEAR T8 FLUORESCENT	32	3500	85	
HB246WG	COLUMBIA METALUX LITHONIA EXCELINE BETA	LHR4-632-M4R-U-24EP HBL-632-N-UNV-EBT2 IBZ 632 MVOLT 2/3 FBW632EB48 BLF-30-D-NC-6-032-A-UNV	HIGHBAY FLUORESENT 4' - HIGHBAY FLUORESCENT - 6 LAMP NARROW BEAM DISTRIBUTION BALLAST TYPE: FB2 / NUMBER OF BALLASTS: 2	120	185	SUSPENDED CABLE FROM STRUCTURE	6	48" LINEAR T8 FLUORESCENT	32	3500	85	
SF42	LITHONIA METALUX COLUMBIA HEWILLIAMS LIGHTOLIER	LB SERIES APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL	SURFACE WRAP, 1X4 2-LAMP T8 FINISH: WHITE BALLAST TYPE: FB1 / NUMBER OF BALLASTS: 1	120	58	SURFACE	2	48" LINEAR T8 FLUORESCENT	32	3500	85	
VDF1	KENALL MORELITE FAILSAFE	HADL6HFES-2-26Q-ES-120 APPROVED EQUAL APPROVED EQUAL	VANDAL RESISTANT DOWN LIGHT .125" LENS, VANDAL RESISTANT HARWARE TRIM AND FINISH BY ARCHITECT BALLAST TYPE: FB3/ NUMBER OF BALLASTS: 1	120	50	RECESSED FLANGED	2	COMPACT FLUORESCENT QUAD	26	3500	82	
VF1	KENALL MORELITE FAILSAFE	CD4-0/0-332-11202/21 APPROVED EQUAL FCC SERIES	DETENTION GRADE CORNER LIGHT VANDAL RESISTANT HARDWARE - TORX FINISH: WHITE BALLAST TYPE: FB2 / NUMBER OF BALLASTS: 1	120	84	SURFACE	3	48" LINEAR T8 FLUORESCENT	32	3500	85	
VF2	FAILSAFE MORELITE KENALL WIDELITE	FSRC-64A-120-SCBA- APPROVED EQUAL APPROVED EQUAL PVNC-2-32-B-K2Y-B	VANDAL RESISTANT SURFACE MOUNTED VANDAL RESISTANT HARDWARE - TORX BALLAST TYPE: FB1 / NUMBER OF BALLASTS: 1 VERIFY FINISH WITH ARCHITECT	120	58	SURFACE	2	48" LINEAR T8 FLUORESCENT	32	3500	85	
VF3	FAILSAFE MORELITE KENALL WIDELITE	FSRC-64A-120-SCBA- APPROVED EQUAL APPROVED EQUAL PVNC-2-32-B-2K2Y-B	VANDAL RESISTANT SURFACE MOUNTED VANDAL RESISTANT HARDWARE - TORX BALLAST TYPE: FB1 / NUMBER OF BALLASTS: 2	120	58	SURFACE	2	48" LINEAR T8 FLUORESCENT	32	3500	85	
WF4	ALERA PINNACLE AXIS PEERLESS HEWILLIAMS CORELITE	CV-8-2T8-PERF-WM-X-U-MW-X G9R-2T8-8'-WA-UNV-1C-W LTW-P-8-T8-2-W-E-120/277-1 CRW7 WHR 2 32 8FT R8 277 GEB10 AIWP33-8-432-EB8P4(.72BF) UNV W-S-P-2-T8-1-C-UNV-SU-WA-CM	6"WIDE X 2.5" TALL X 8' LONG WALL MOUNT LIGHT 4-LAMP, PERFORATED BOTTOM BALLAST TYPE: FB1 / NUMBER OF BALLASTS: 2 PROVIDE END CAPS, MATTE WHITE FINISH	120	116	SURFACE	4	48" LINEAR T8 FLUORESCENT	32	3500	85	
X1	DUAL-LITE ISOLITE EVENLITE EXITRONIX LIGHTOLIER LITHONIA	CVD1GAW LPDC-AC-G-S-CBA-UN CCDS-AC-G-1-CBA-XX G402-LB-CBA LDSNUGW LE S W 1 G 120/277	LED DIE-CAST ALUMINUM EXIT SIGN OPERATION: AC ONLY FACE TYPE: STENCIL HOUSING COLOR: WHITE NUMBER OF FACES: 1 LETTER COLOR: GREEN	120/277	5	UNIVERSAL	5	LED	-	-	-	COORDINATE MOUNTING OPTIONS WITH DRAWINGS
X2	DUAL-LITE ISOLITE EVENLITE EXITRONIX LIGHTOLIER LITHONIA	CVD1GAW LPDC-AC-G-S-CBA-UN CCDS-AC-G-1-CBA-XX G402-LB-CBA LDSNUGW LE S W 2 G 120/277	LED DIE-CAST ALUMINUM EXIT SIGN OPERATION: AC ONLY FACE TYPE: STENCIL HOUSING COLOR: WHITE NUMBER OF FACES: 2 LETTER COLOR: GREEN	120/277	5	UNIVERSAL	5	LED	-	-	-	COORDINATE MOUNTING OPTIONS WITH DRAWINGS
FLUORESCENT BALLAST SCHEDULE												
FB1	ADVANCE MAGNETEK MOTOROLA OSRAM SYLVANIA GE	OPTANIUM IOP-2S32-SC	F32T8 PROGRAM START ELECTRONIC BALLAST NORMAL BALLAST FACTOR BF<= .90 ; THD: <10 1 OR 2-LAMP	120/277								
FB2	ADVANCE MAGNETEK MOTOROLA OSRAM SYLVANIA GE	OPTANIUM IOP-3S32-SC	F32T8 PROGRAM START ELECTRONIC BALLAST NORMAL BALLAST FACTOR BF<= .90 ; THD: <10 3-LAMP	120/277								
FB3	ADVANCE MAGNETEK MOTOROLA OSRAM SYLVANIA GE	SMART MATE ICF-2S26-H1-LD-QS	T4 CFL TRIPLE TUBE ELECTRONIC BALLAST NORMAL BALLAST FACTOR BF= 1 ; THD: <10 1-LAMP	120/277								
FBD1	ADVANCE LUTRON GE OSRAM SYLVANIA	MARK 7 IZT-3S32-SC	F32T8 0-10V ELECTRONIC DIMMING BALLAST BALLAST FACTOR BF=1 ; THD: <10 3-LAMP	120/277								

FIXTURE ABBREVIATIONS, GENERAL NOTES AND REQUIREMENTS

ABBREVIATION SCHEDULE

A.F.F.	ABOVE FINISHED FLOOR
WALL@CLG.	WALL MOUNT AT CORNER OF WALL AND CEILING
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHTECT
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED
BOD	BASIS OF DESIGN

LIGHT FIXUTRE PRIOR APPROVAL REQUIREMENTS

1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) WORKING DAYS BEFORE BID TIME. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTALS AND THAT THE PROJECTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVALS WILL NOT BE GIVEN ON ANY ITEM.
5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICALBE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTMETRIC DATA WILL NOT BE APPROVED.

LIGHT FIXTURE GENERAL NOTES

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXUTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
2. REFER TO THE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER REQUIREMENTS (IF ANY).
5. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWING. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENDTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.

BIDDING REQUIREMENTS

1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTOR.
4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

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REGISTERED PROFESSIONAL ENGINEER
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No.264397
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PAROLE VIOLATOR CENTER

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Division of Facilities Construction and Management

THE GREAT SEAL OF THE STATE OF UTAH 1896

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ENVISION PROJECT NO.: 2011-181.00
ISSUED DATE: 3/19/2012

LIGHTING SCHEDULES

EL601

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Interior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **Addition**
Project Title : Parole Violator Center

Construction Site:
1747 SOUTH 900 WEST
SALT LAKE CITY, UT

Owner/Agent:

Designer/Contractor:
ENVISION ENGINEERING

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
CORRECTIONAL DORM (Dormitory)	37470	1	37470
DINING AND KITCHEN (Dining: Cafeteria/Fast Food)	3000	1.4	4200
		Total Allowed Watts =	41670

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
CORRECTIONAL DORM (Dormitory 37470 sq.ft.)				
Linear Fluorescent 2: GA242: 2X4 TROFFER / 48" T8 32W / Electronic	2	16	58	928
Linear Fluorescent 4: GA243: 2X4 TROFFER / 48" T8 32W / Electronic	3	102	84	8568
Linear Fluorescent 5: C142G: STRIP LIGHT / 48" T8 32W / Electronic	2	23	58	1334
Linear Fluorescent 6: SF42: SURFACE WRAP / 48" T8 32W / Electronic	2	9	58	522
Linear Fluorescent 8: VF1: CELL CORNER / 48" T8 32W / Electronic	3	35	84	2940
Linear Fluorescent 7: VF2: VANDAL 1X4 / 48" T8 32W / Electronic	2	156	58	9048
Linear Fluorescent 11: VF3: VANDAL 1X4 / 48" T8 32W / Electronic	2	35	35	1225
Linear Fluorescent 11: HB246WG: HIGHBAY 2X4 / 48" T8 32W / Electronic	6	15	180	2700
Linear Fluorescent 9: WF4: WALL BRACKET / 48" T8 32W / Electronic	4	2	116	232
Compact Fluorescent 1: VDF1: VANDAL DOWNLIGHT / Quad 2-pin 26W / Electronic	2	34	50	1700
Linear Fluorescent 12: GB243D: DIMMABLE 2X4 / 48" T8 32W / Electronic	3	6	100	600
DINING AND KITCHEN (Dining: Cafeteria/Fast Food 3000 sq.ft.)				
Linear Fluorescent 1: GA243: 2X4 TROFFER / 48" T8 32W / Electronic	3	27	84	2268
Linear Fluorescent 3: GA242: 2X4 TROFFER / 48" T8 32W / Electronic	2	4	58	232
			Total Proposed Watts =	32297

Section 4: Requirements Checklist

Lighting Wattage:

☑ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
41670	32297	YES

Controls, Switching, and Wiring:

NA ☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

NA ☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

☐ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

☑ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

☐ Areas designated as security or emergency areas that must be continuously illuminated.

☑ Lighting in stairways or corridors that are elements of the means of egress.

NA ☐ 5. Master switch at entry to hotel/motel guest room.

NA ☐ 6. Individual dwelling units separately metered.

NA ☐ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

☐ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

☐ Only one luminaire in space.

☑ An occupant-sensing device controls the area.

☑ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

☑ Areas that use less than 0.6 Watts/sq.ft.

☑ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

☑ 10. Photocell/astronomical time switch on exterior lights.

Exceptions:

☐ Lighting intended for 24 hour use.

☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

☑ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Interior Lighting PASSES: Design 22% better than code.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COM*check* Version 3.8.0 and to comply with the mandatory requirements in the Requirements Checklist.

MICHAEL CARTWRIGHT
Name - Title

Signature

12/15/11
Date

COM*check* Software Version 3.8.0

Exterior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **Addition**
Project Title : Parole Violator Center
Exterior Lighting Zone: **2 (Light industrial area with limited nighttime use)**

Construction Site:
1747 SOUTH 900 WEST
SALT LAKE CITY, UT

Owner/Agent:

Designer/Contractor:
ENVISION ENGINEERING

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
MAN DOORS (Other door (not main entry))	21 ft of door width	20	Yes	420	162
			Total Tradable Watts* =	420	162
			Total Allowed Watts =	420	
			Total Allowed Supplemental Watts** =	600	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.

** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
MAN DOORS (Other door (not main entry) 21 ft of door width): Tradable Wattage				
LED: AW1: LED WALL PACK / Other / Standard	1	6	27	162
			Total Tradable Proposed Watts =	162

Section 4: Requirements Checklist

Lighting Wattage:

☑ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.

Compliance: Passes.

Controls, Switching, and Wiring:

☑ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.

☑ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.

☑ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.

☑ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Exterior Lighting Efficacy:

☑ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Exceptions:

NA ☐ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.

NA ☐ Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.

NA ☐ Emergency lighting that is automatically off during normal building operation.

NA ☐ Lighting that is controlled by motion sensor.

Exterior Lighting PASSES: Design 84% better than code.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COM*check* Version 3.8.0 and to comply with the mandatory requirements in the Requirements Checklist.

MICHAEL CARTWRIGHT
Name - Title

Signature

12/15/11
Date

REGISTERED PROFESSIONAL ENGINEER
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3/19/12
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COMCHECK

EL801

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REVISIONS:

KEYED NOTES:

1. ROUTE THROUGH FIRE ALARM CONTROL MODULE LOCATED IN ELECTRICAL ROOM 212.
2. EXISTING UNIT HEATERS TO REMAIN.

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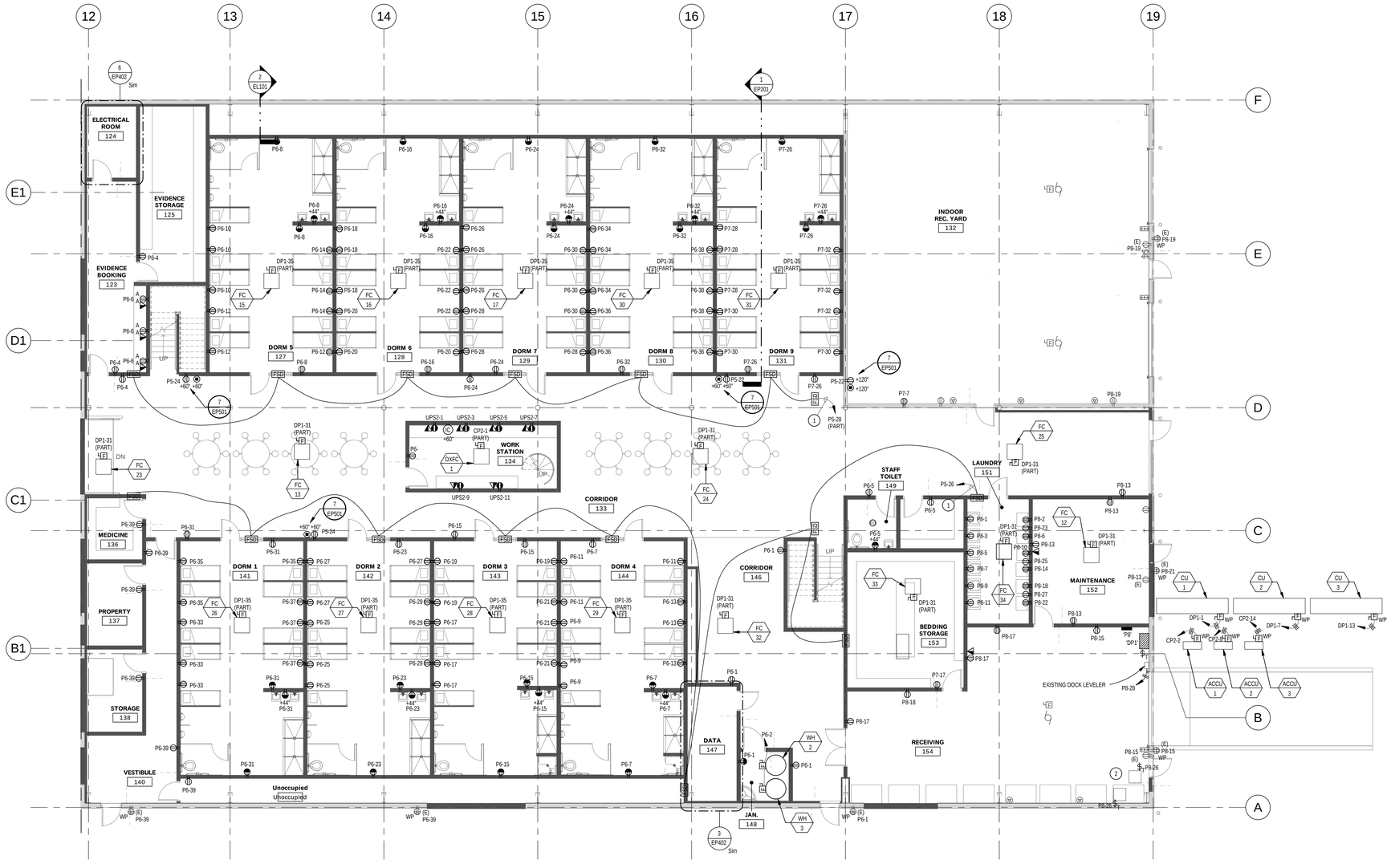

1 EP101 LEVEL 1 POWER PLAN - AREA "A"
1/8" = 1'-0"

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Division of Facilities Construction and Management

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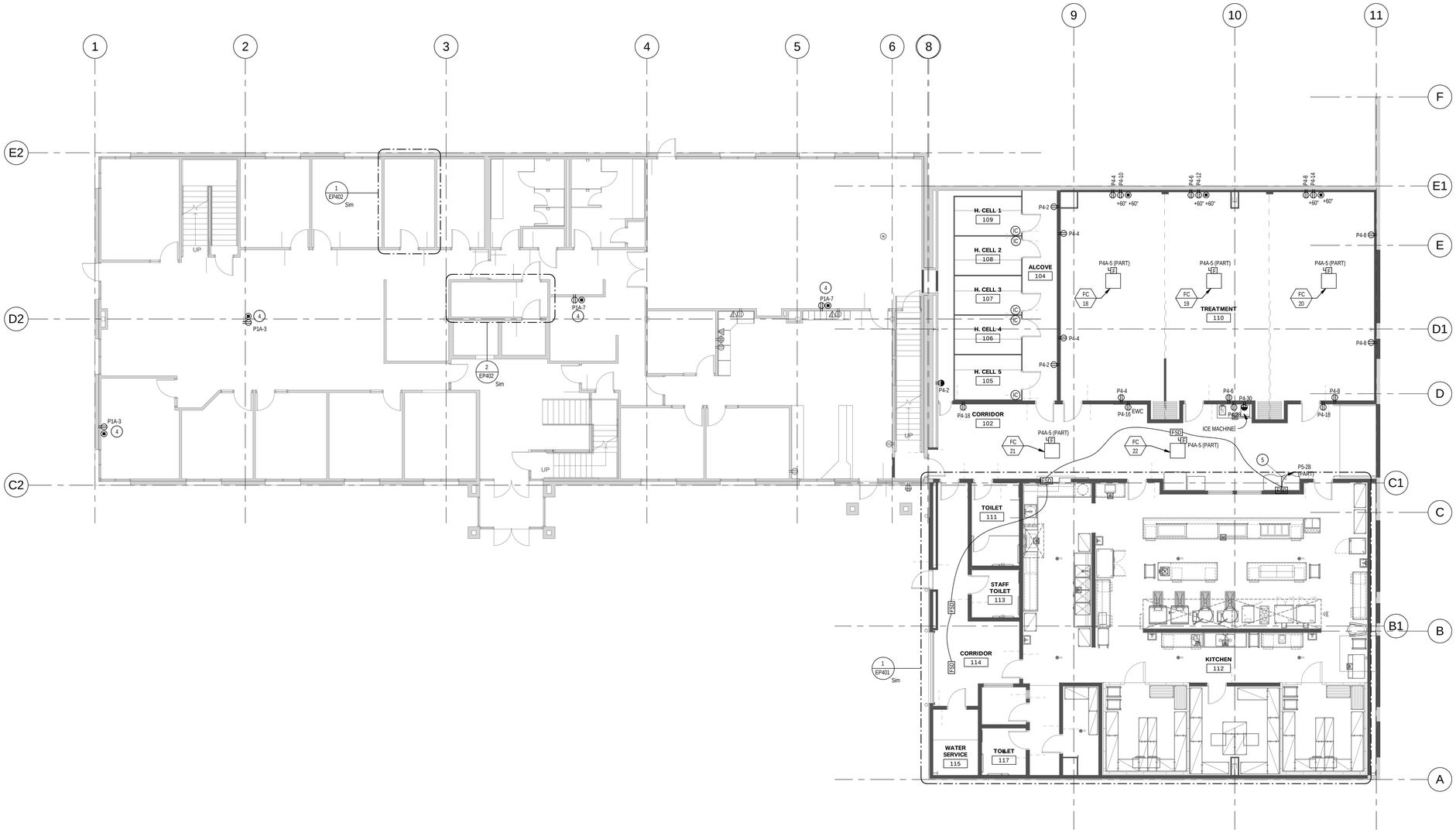
POWER PLAN - LEVEL 1 AREA "A"

EP101

KEYED NOTES: (#)

1. UP TO MAU-1 ON ROOF.
2. UP TO EF-1 ON ROOF.
3. SWITCHES FOR EXHAUST FAN AND MAKE-UP AIR UNIT.
4. COORDINATE EXACT MOUNTING WITH OWNER PRIOR TO ROUGH-IN.
5. ROUTE THROUGH FIRE ALARM CONTROL MODULE LOCATED IN ELECTRICAL ROOM 212.



1 EP102 LEVEL 1 POWER PLAN - AREA "B"
1/8" = 1'-0"

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POWER PLAN - LEVEL 1
AREA "B"

EP102

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REVISIONS:

KEYED NOTES: #

1. ROUTE THROUGH FIRE ALARM CONTROL MODULE LOCATED IN ELECTRICAL ROOM 212.

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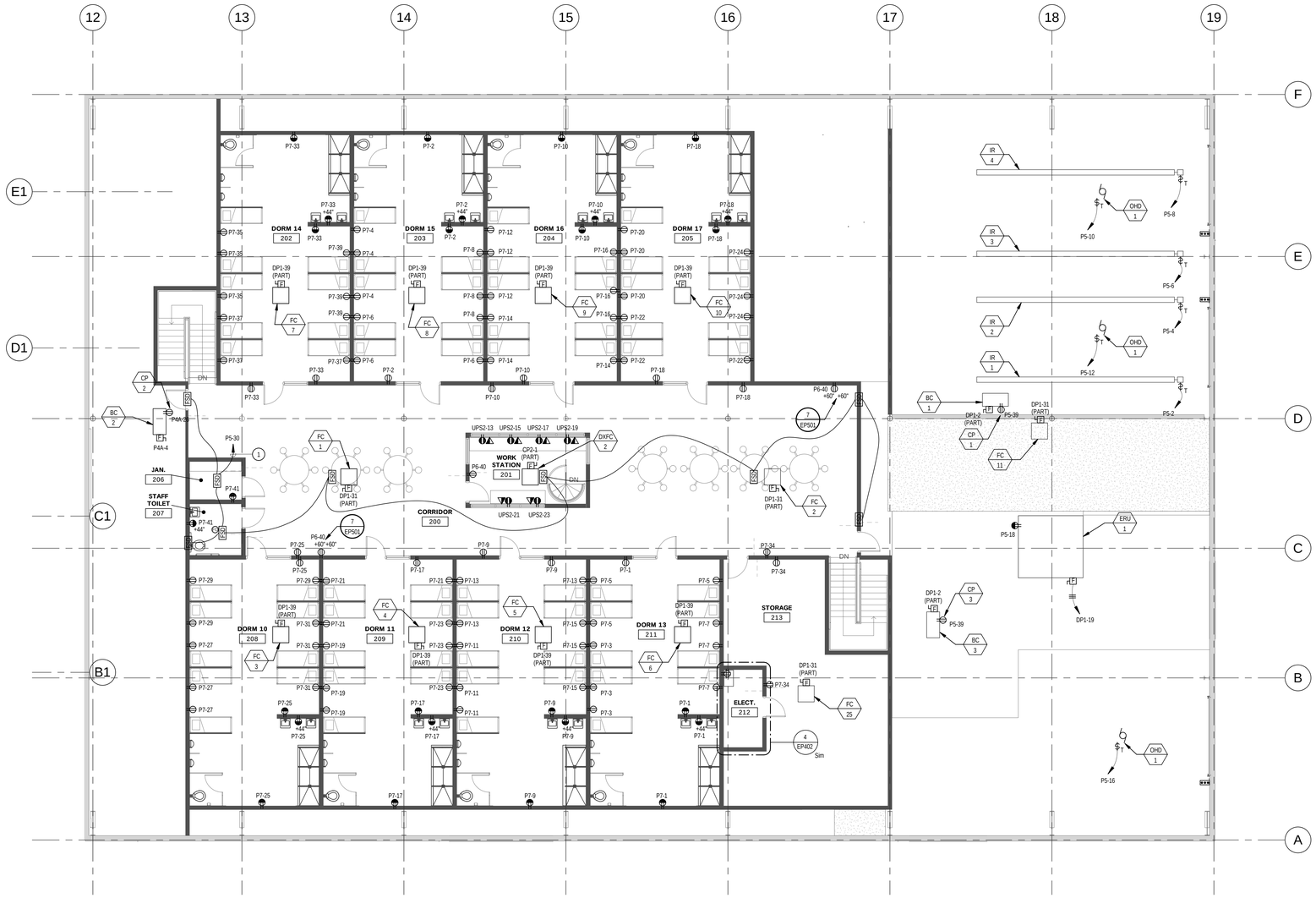

1 EP103 LEVEL 2 POWER PLAN - AREA "A"
1/8" = 1'-0"

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POWER PLAN - LEVEL 2
AREA "A"

EP103

KEYED NOTES: #

1. CONNECT TO EXISTING BRANCH FEEDER THAT FED THE OLD UNIT THAT WAS REMOVED UNDER THE DEMOLITION.
2. EXISTING ELECTRICAL PANELS.
3. DOWN TO STARTER IN KITCHEN.
4. COORDINATE FINAL MOUNTING WITH OWNER PRIOR TO ROUGH-IN.

KEYED NOTES: #

1. COORDINATE FINAL MOUNTING WITH OWNER PRIOR TO ROUGH-IN.
2. EXISTING ELECTRICAL PANELS.

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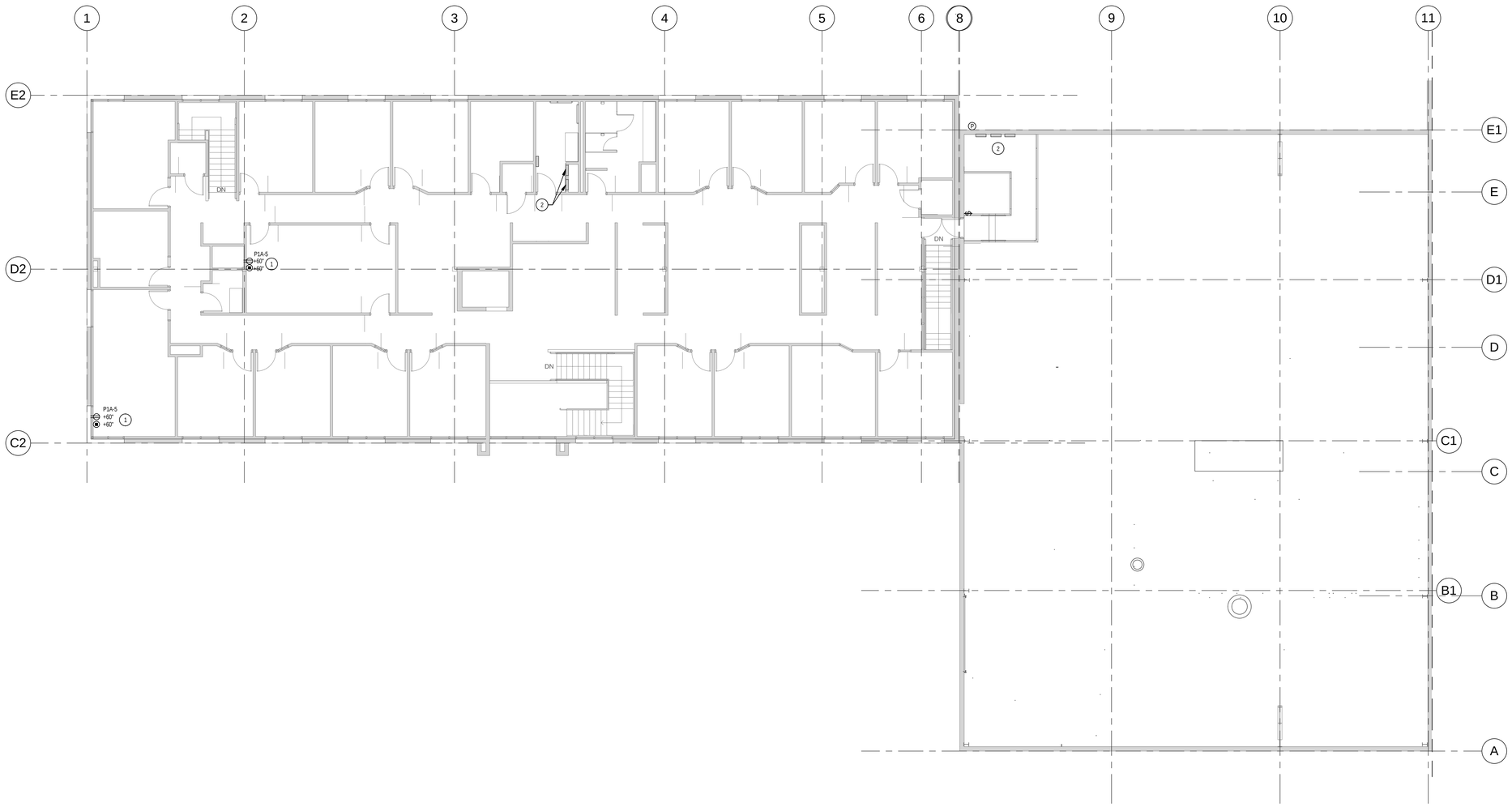

1 EP104 LEVEL 2 POWER PLAN - AREA "B"
1/8" = 1'-0"

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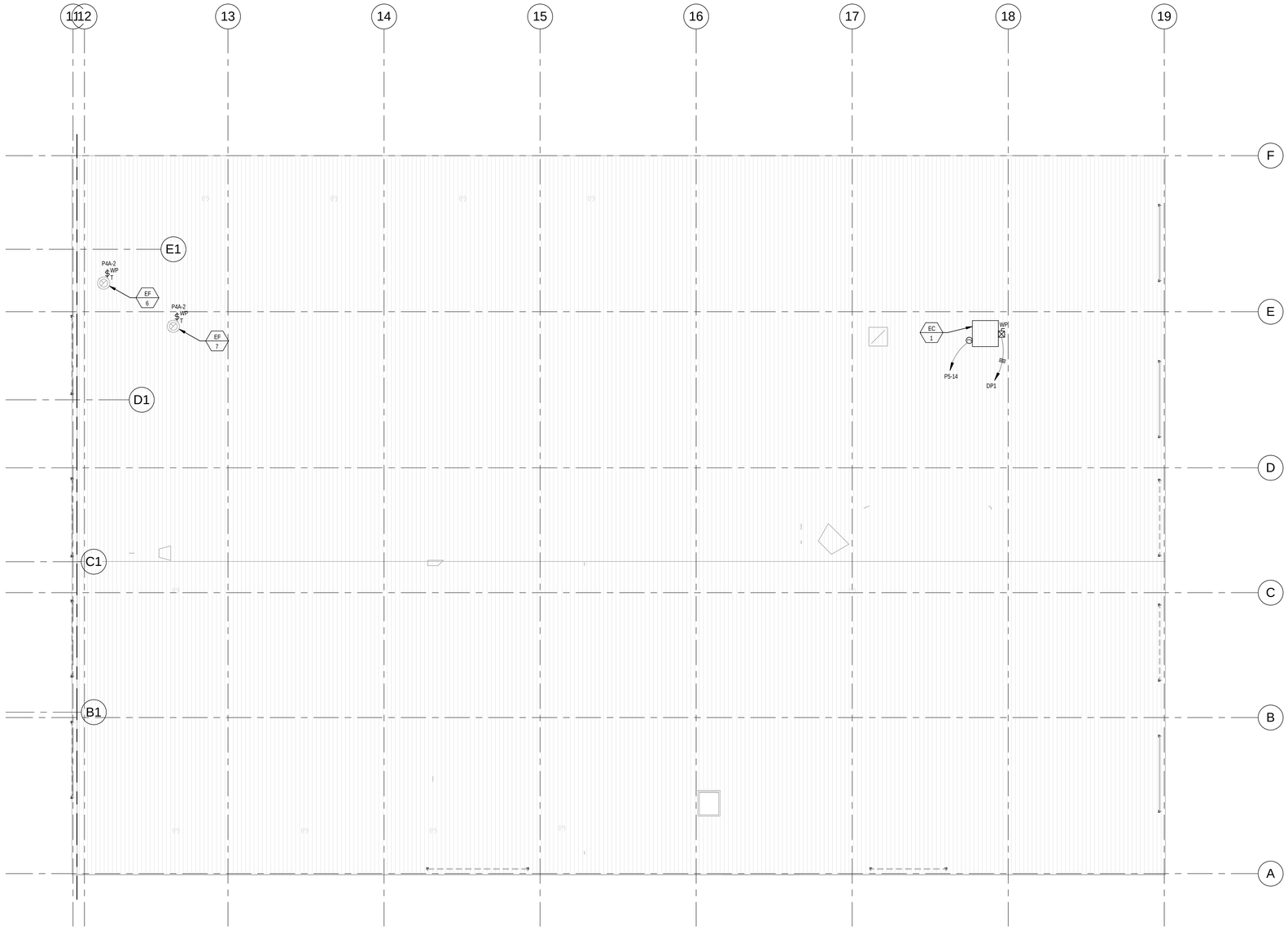
POWER PLAN - LEVEL 2
AREA "B"

EP104



1 EP105 ROOF PLAN AREA "A"
1/8" = 1'-0"

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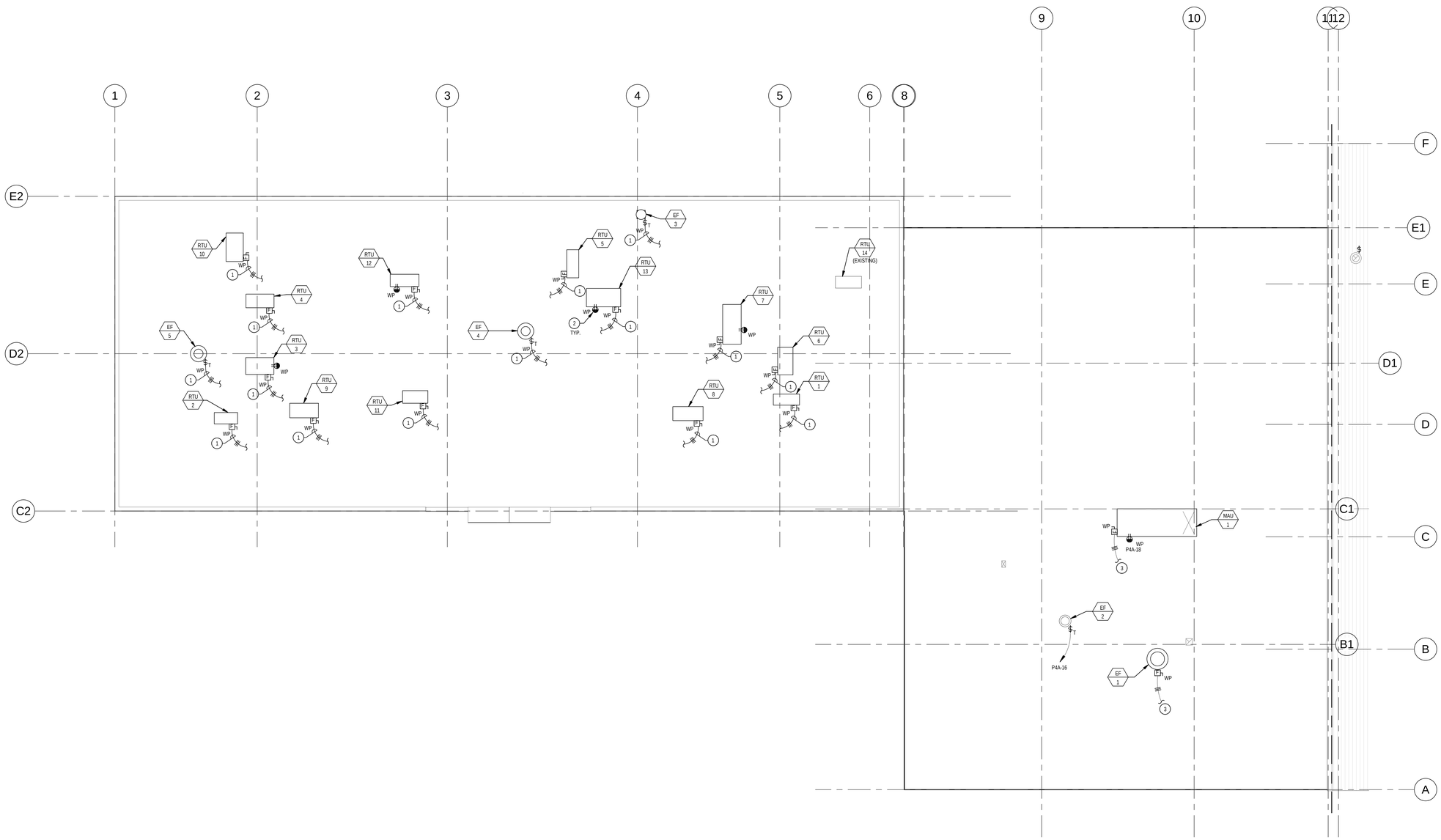
POWER PLAN - ROOF AREA "A"

EP105

KEYED NOTES: 4

1. CONNECT TO EXISTING BRANCH FEEDER THAT FED THE OLD UNIT THAT WAS REMOVED UNDER THE DEMOLITION.
2. INSTALL NEW GFI RECEPTACLE ON NEW UNIT. RE-USE EXISTING BRANCH CIRCUIT.
3. DOWN TO STARTER IN KITCHEN.



1 EP106 ROOF PLAN AREA "B"
1/8" = 1'-0"

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POWER PLAN - ROOF AREA "B"

EP106

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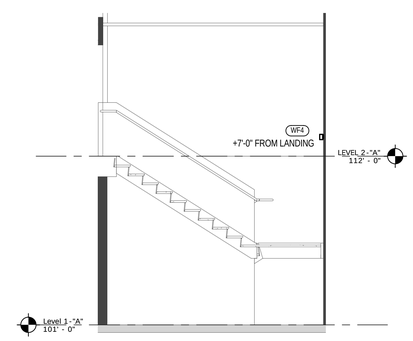
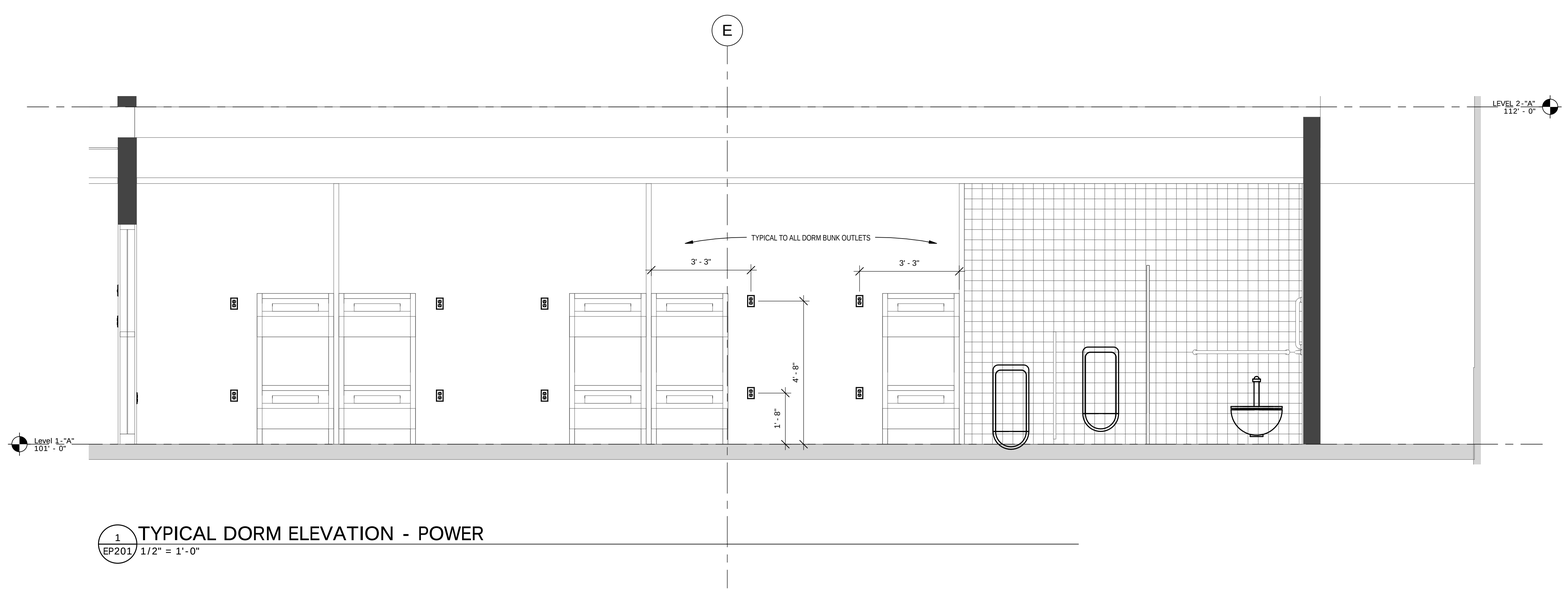


2 EP201 EAST STAIR SECTION
1/4" = 1'-0"



1 EP201 TYPICAL DORM ELEVATION - POWER
1/2" = 1'-0"

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Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	
ENVISION PROJECT NO.:	2011-181.00
ISSUED DATE:	3/19/2012

ELECTRICAL ELEVATIONS

EP201

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ELECTRICAL ROUGH-IN/FINAL CONNECTION SCHEDULE

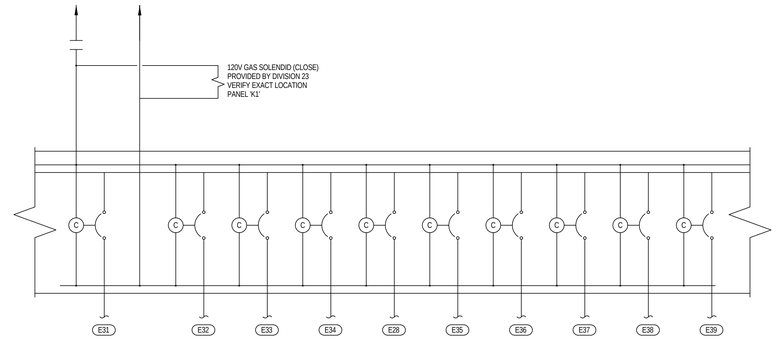
ROUGH-IN REQUIREMENTS			CONNECTION REQUIREMENTS				REMARKS
RI#	ROUGH-IN TYPE	HGT.	ITEM # : EQUIPMENT DESCRIPTION	VLY/CYC/PH	LOAD	CONN	REMARK
E-01	JUNCTION BOX	VER	#K4A : WALK-IN COOLER REF: CONDENSER	208/60/3	1.5 HP	J-BOX	VERIFY LOCATION OF REMOTE UNIT ON ROOF.
E-02	JUNCTION BOX	DFA	#K4B : WALK-IN COOLER REF: BLOWER COILS	115/60/1	4.2 AMP	J-BOX	INTERCONNECT CONTROLS WITH REMOTE CONDENSER.
E-03	JUNCTION BOX	DFA	#K2B : WALK-IN COOLER: LIGHTS AND HEATER	115/60/1	6 AMP	J-BOX	INTERCONNECT (6) ADDITIONAL LIGHTS.
E-04	JUNCTION BOX	VER.	#K3A : WALK-IN FREEZER REF: CONDENSER	208/60/3	3 HP	J-BOX	VERIFY LOCATION OF REMOTE UNIT ON ROOF.
E-05	JUNCTION BOX	DFA	#K3B : WALK-IN FREEZER REF: BLOWER COILS	208/60/1	2.2 AMP	J-BOX	INTERCONNECT CONTROLS WITH REMOTE CONDENSER.
E-06	JUNCTION BOX	DFA	#K3B : WALK-IN FREEZER REF: DEFROST	208/60/1	8.7 AMP	J-BOX	INTERCONNECT DEFROST WITH REMOTE CONDENSER.
E-07	JUNCTION BOX	DFA	#K2A : WALK-IN FREEZER: LIGHTS AND HEATER	115/60/1	6 AMP	J-BOX	INTERCONNECT (6) ADDITIONAL LIGHT.
E-08	JUNCTION BOX	+72"	#K49 : ICE MAKER	208/60/1	11.9 AMP	J-BOX	–
E-09	CONVENIENCE OUTLET	+48"	#K14 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-10	OUTLET	+48"	#K15 : SLICER	115/60/1	1/2 HP	C&P	–
E-11	CONVENIENCE OUTLET	+48"	#K14 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-12	OUTLET	+48"	#K16 : FOOD PROCESSOR	120/60/1	4.8 AMP	C&P	–
E-13	CONVENIENCE OUTLET	+48"	#K14 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-14	JUNCTION BOX	+18"	#K24 : 60 QUART MIXER	200/60/1	16 AMP	J-BOX	–
E-15	CONVENIENCE OUTLET	+48"	#K21 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-16	CONVENIENCE OUTLET	+48"	#K21 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-17	CONVENIENCE OUTLET	+48"	#K21 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-18	OUTLET	+18"	#K47 : HOT FOOD WARMING CABINET	120/60/1	19.3 AMP	C&P	–
E-19	OUTLET	+48"	#K28 : MILK DISPENSER	120/60/1	1.3 AMP	C&P	VERIFY WITH VENDER.
E-20	CONVENIENCE OUTLET	+48"	#K29 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-21	CONVENIENCE OUTLET	+48"	#K29 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-22	OUTLET	+90"	#K48 : REACH-IN REFRIGERATOR	115/60/1	10 AMP	C&P	–
E-23	NOT USED	–	– : –	–	–	–	–
E-24	JUNCTION BOX	DFA	#K32 : EXHAUST HOOD	120/60/1	1,200 WATT	J-BOX	INTERCONNECT WITH EXHAUST SYSTEM AND HOOD SWITCH
E-25	SWITCH/CONTROLS	+54"	#K32 : EXHAUST HOOD: SWITCH	120/60/1	–	–	INTERCONNECT WITH EXHAUST SYSTEM AND EXHAUST HOOD
E-26	JUNCTION BOX	DFA	#K33 : GAS SHUT OFF VALVE	120/60/1	1 AMP	J-BOX	CONNECT TO GAS SHUT OFF AND HOOD CONTROLS AS REQ'D. INTERCONNECT WITH SHUNT TRIP BREAKERS FOR HOOD EQUIPMENT. PROVIDED WITH FIVE CONTACTS.
E-27	EMERGENCY SWITCH	+54"	#K33 : EXHAUST HOOD: KILL SWITCH	–	–	–	INCLUDED WITH FIRE PROTECTION SYSTEM BY K.E.C.
E-28	JUNCTION BOX	DFA	#K32 : EXHAUST HOOD: HEAT SENSOR	120/60/1	15 AMP	J-BOX	INTERCONNECT TO TERMINAL BLOCK PROVIDED IN HOOD. NOTE #2.
E-29	NOT USED	–	– : –	–	–	–	–
E-30	NOT USED	–	– : –	–	–	–	–
E-31	OUTLET	+18"	#K34 : TILT SKILLET	120/60/1	1.8 AMP	C&P	–
E-32	OUTLET	+18"	#K34 : TILT SKILLET	120/60/1	1.8 AMP	C&P	–
E-33	OUTLET	+18"	#K35 : 25 GALLON TILT KETTLE	120/60/1	5 AMP	C&P	–
E-34	OUTLET	+18"	#K35 : 25 GALLON TILT KETTLE	120/60/1	5 AMP	C&P	–
E-35	JUNCTION BOX	+18"	#K37 : STEAMER	115/60/1	300 WATT	J-BOX	–
E-36	OUTLET	+18"	#K38 : CONVECTION OVEN	115/60/1	6 AMP	C&P	–
E-37	OUTLET	+18"	#K38 : CONVECTION OVEN	115/60/1	6 AMP	C&P	–
E-38	OUTLET	+18"	#K38 : CONVECTION OVEN	115/60/1	6 AMP	C&P	–
E-39	OUTLET	+18"	#K38 : CONVECTION OVEN	115/60/1	6 AMP	C&P	–
E-40	NOT USED	–	– : –	–	–	–	–
E-41	JUNCTION BOX	STUB	#K44 : WORK TABLE	120/60/1	180 WATT	C&P	CONECT TO OUTLET MOUNTED ON WORK TABLE. ONE EACH OUTLET CONNECTION. NOTE #1.
E-42	JUNCTION BOX	STUB	#K45 : WORK TABLE	120/60/1	360 WATT	C&P	CONECT TO OUTLET MOUNTED ON WORK TABLE. TWO EACH OUTLET CONNECTION. NOTE #1.
E-43	OUTLET	STUB	#K56 : REFRIGERATED COLD PAN	120/60/1	4 AMP	C&P	INTERCONNECT SWITCH TO OUTLET.
E-44	JUNCTION BOX	STUB	#K53 : SERVING COUNTER	120/60/1	180 WATT	C&P	CONECT TO OUTLET MOUNTED ON WORK TABLE. NOTE #1.
E-45	OUTLET	STUB	#K56 : REFRIGERATED COLD PAN	120/60/1	4 AMP	C&P	INTERCONNECT SWITCH TO OUTLET.
E-46	JUNCTION BOX	STUB	#K53 : SERVING COUNTER	120/60/1	180 WATT	C&P	CONECT TO OUTLET MOUNTED ON WORK TABLE. NOTE #1.
E-47	JUNCTION BOX	STUB	#K54 : HOT FOOD WARMER	208/60/1	21.2 AMP	J-BOX	INTERCONNECT CONTROLS.
E-48	CONVENIENCE OUTLET	+48"	#K62 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-49	OUTLET	+48"	#K63 : COFFEE BREWING SYSTEM	208/60/1	20 AMP	C&P	VERIFY WITH VENDER
E-50	NOT USED	–	– : –	–	–	–	–
E-51	SWITCH/CONTROLS	+54"	#K74 : VENT HOOD: SWITCH	120/60/1	–	–	INTERCONNECT WITH VENT HOOD EXHAUST SYSTEM. NOTE #3.
E-52	JUNCTION BOX	+18"	#K71 : SCRAP COLLECTOR	208/60/3	3.2 AMP	J-BOX	INTERCONNECT CONTROLS.
E-53	JUNCTION BOX	+18"	#K73 : DISHWASHER	208/60/3	11.1 AMP	J-BOX	INTERCONNECT CONTROLS. NOTE #3.
E-54	JUNCTION BOX	+18"	#K76 : BOOSTER HEATER	120/60/1	3 AMP	J-BOX	NOTE #3.
E-55	CONVENIENCE OUTLET	+48"	– : WORK COUNTER	120/60/1	180 WATT	C&P	–
E-56	OUTLET	+48"	#K64 : ICE MAKER/DISPENSER	115/60/1	10.3 AMP	C&P	–

NOTE #1: RUN FROM ROUGH-IN AND MOUNT OUTLET/JUNCTION BOX AT UNDERSIDE OF TABLE/COUNTER.

NOTE #2: ELECTRICIAN TO FIELD WIRE LOW VOLTAGE FROM EACH TEMPERATURE CONTROLLER TO HEAT SENSOR PROVIDED WITH HOOD AT EACH EXHAUST RISER. ELECTRICIAN TO INTERLOCK CONTACTORS OR STARTERS SPECIFIED BY MECHANICAL SYSTEM TO THE CONTACTS AT THE TERMINAL BLOCK TO OPERATE FAN.

NOTE #3: INTERCONNECT POWER TO DISHWASHER AND BOOSTER HEATER WITH EXHAUST FAN SWITCH/CONTROLS SO THAT THE EQUIPMENT WILL OPERATE ONLY WHEN THE EXHAUST FAN IS OPERATING.

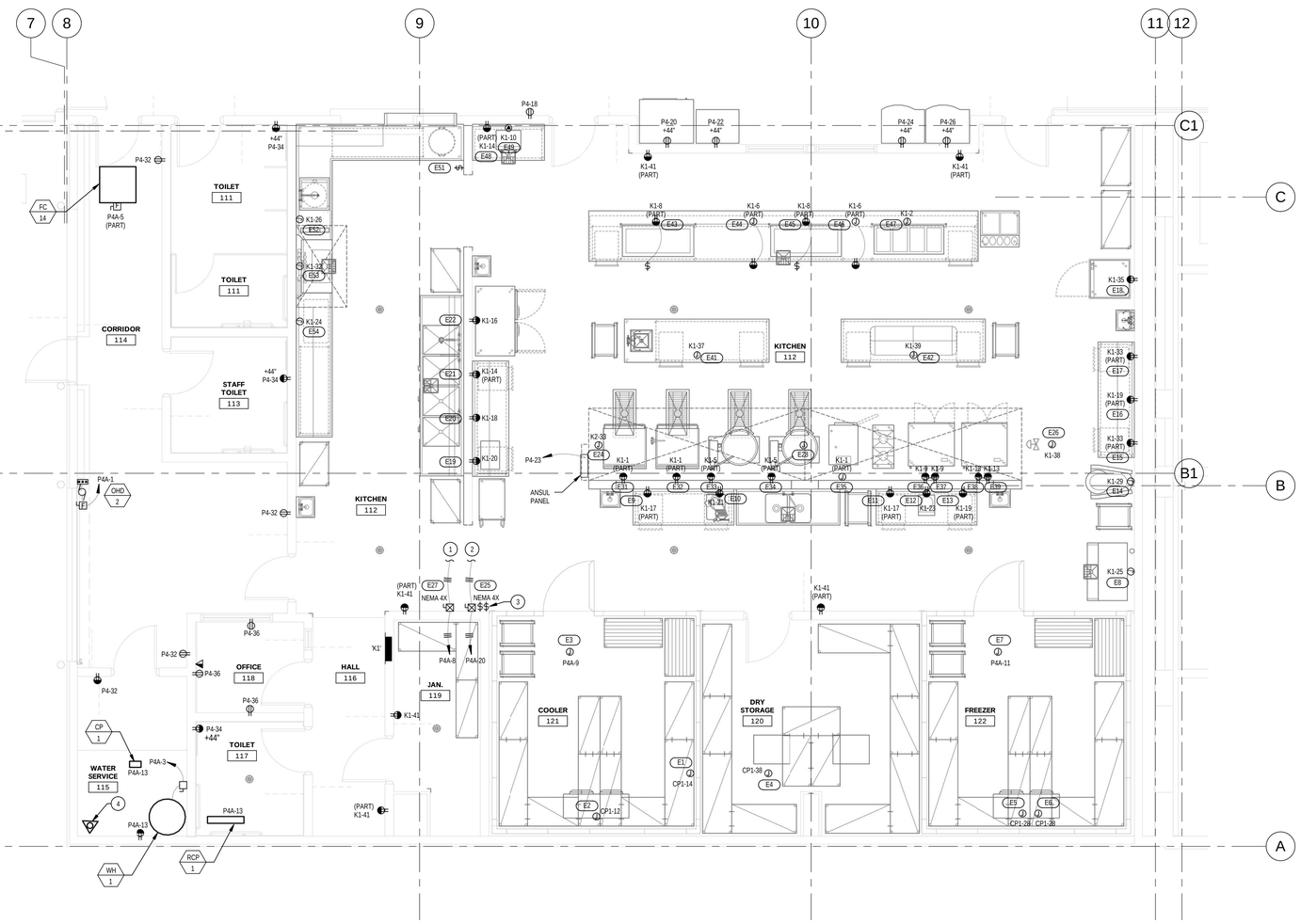
DFA: DROP FROM ABOVE
J-BOX: JUNCTION BOX CONNECTION
C&P: CORD AND PLUG
AMP: AMPERES
HP: HORSE POWER



2 EP401 ELECTRICAL SHUT OFF DETAIL
12" = 1'-0"

KEYED NOTES: #

1. UP TO MAU-1 ON ROOF.
2. UP TO EF-1 ON ROOF.
3. SWITCHES FOR EXHAUST FAN AND MAKE-UP AIR UNIT. REFER TO KITCHEN DRAWINGS.
4. MAIN WATER SERVICE PIPING RISER LOCATION.



1 EP401 LEVEL 1 KITCHEN POWER PLAN
1/4" = 1'-0"

PAROLE VIOLATOR CENTER

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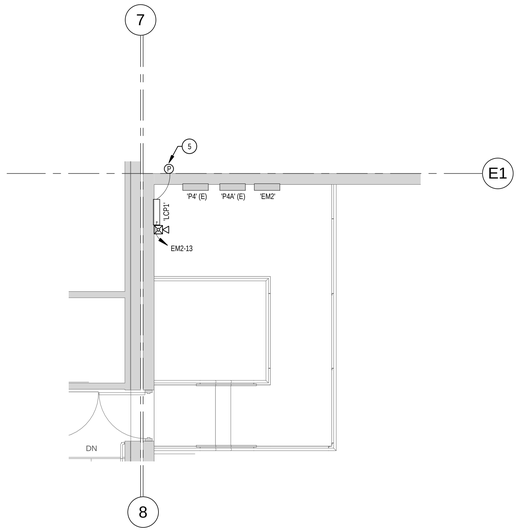
ENLARGED KITCHEN POWER PLAN

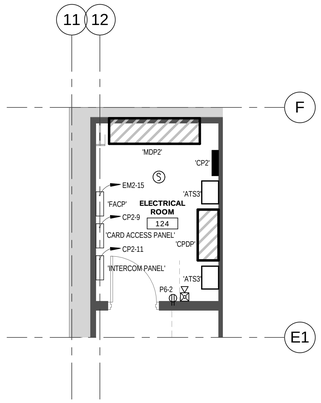
EP401

KEYED NOTES: (#)

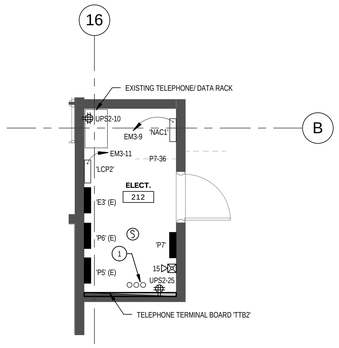
1. STUB THREE (3) 4" CONDUITS DOWN TO COMMUNICATION / DATA ROOM BELOW.
2. STUB THREE (3) 4" CONDUITS UP TO ELECTRICAL ROOM ABOVE.
3. EXISTING EPO SWITCH SHALL SHUT DOWN BOTH THE UPS AND THE MECHANICAL UNIT DXFC-U SERVING THIS SPACE.
4. ALL OTHER EQUIPMENT IN THIS SPACE SHALL REMAIN.
5. MOUNT PHOTOCELL FACING NORTH, CONNECT TO 'LCP1'.



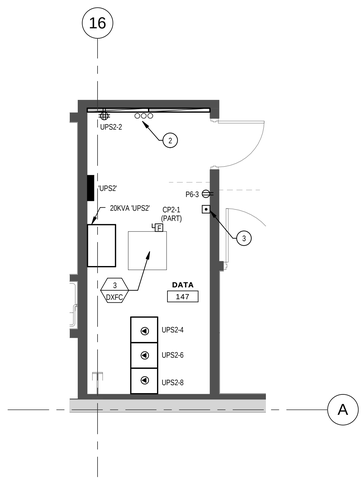
5 EP402 LEVEL 2 ELECTRICAL ROOM - AREA "B"
1/4" = 1'-0"



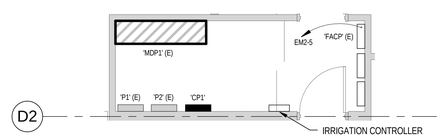
6 EP402 NEW ELECTRICAL ROOM 124 - AREA "A"
1/4" = 1'-0"



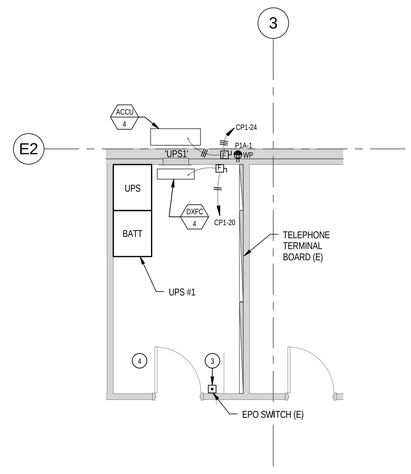
4 EP402 LEVEL 2 ELECTRICAL ROOM 212 - AREA "A"
1/4" = 1'-0"



3 EP402 DATA 147 - AREA "A"
1/4" = 1'-0"



2 EP402 EXISTING MAIN ELECTRICAL ROOM - AREA "B"
1/4" = 1'-0"



1 EP402 EXISTING UPS ROOM - AREA "B"
1/4" = 1'-0"

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PAROLE VIOLATOR CENTER

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Division of Facilities Construction and Management

THE GREAT SEAL OF THE STATE OF UTAH 1896

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ISSUED DATE: 3/19/2012

ENLARGED ELECTRICAL PLANS

EP402

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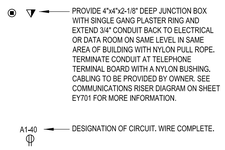
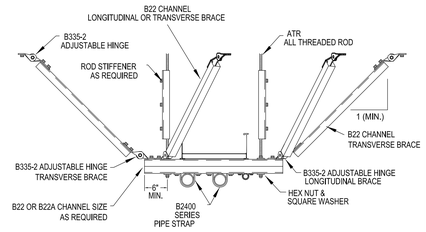
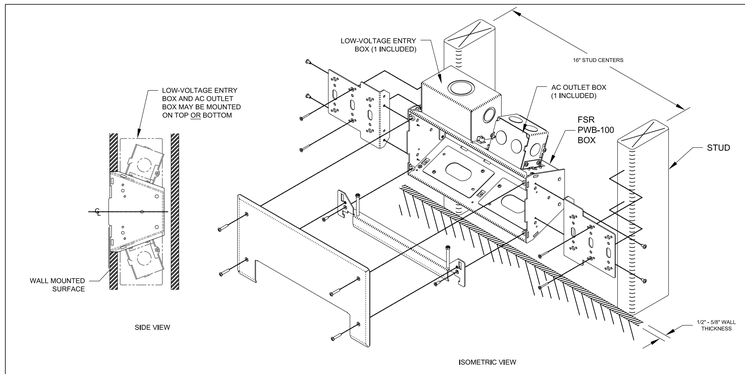


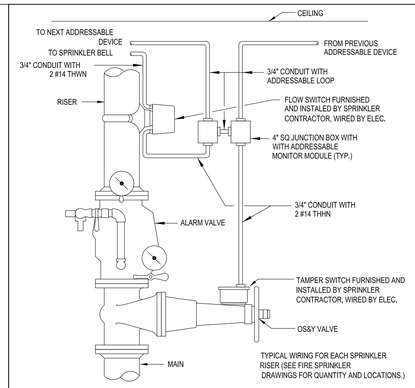
9 TYPICAL OUTLET CONVENTION
SCALE: NONE



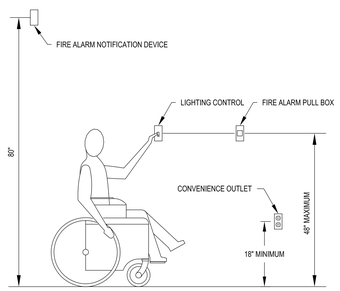
8 TRAPEZE TRANSVERSE BRACING AND LONGITUDINAL BRACING
SCALE: NONE



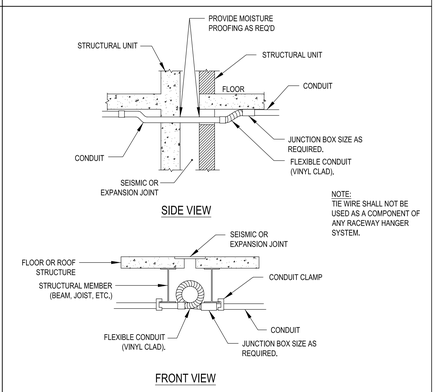
7 TELEVISON BACKBOX ROUGH-IN DETAIL - FSR-PWB-100
SCALE: NONE



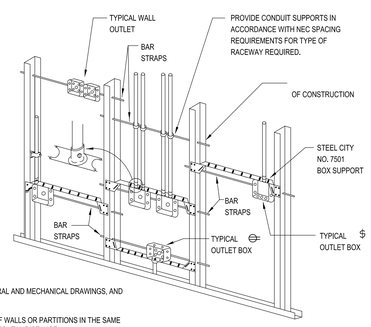
6 FIRE SPRINKLER CONNECTION DETAIL
SCALE: NONE



5 ADA ELEVATION DETAIL
SCALE: NONE



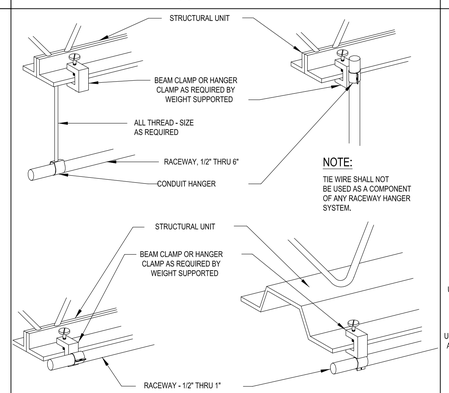
4 TYPICAL EXPANSION JOINT DETAIL
SCALE: NONE



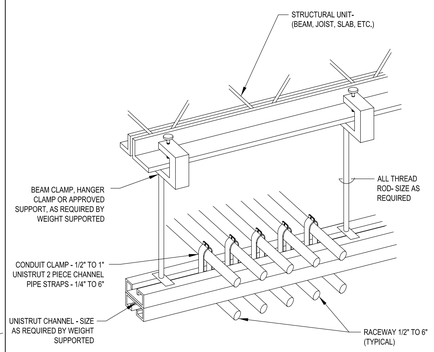
NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH UBC 4303 OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.

3 TYPICAL ROUGH-IN REQUIREMENTS
SCALE: NONE



2 TYPICAL RACEWAY DETAILS
SCALE: NONE



1 MULTIPLE RACEWAY SUPPORT DETAIL
SCALE: NONE

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DETAILS

EP501

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EQUIPMENT SCHEDULE

UNIT NAME	DESCRIPTION	LOAD	TYPE	VOLTAGE	PHASE	AMPERAGE	CONDUIT SIZE	WIRES		STARTER / DISCONNECT/ CONNECTION AT UNIT						POWER FACTOR CORRECTION CAPACITOR (KVAR)	REMARKS
												OCP		DISCONNECT			
								NO.	SIZE	NOTE	STARTER SIZE	SIZE	POLES	SIZE	POLES		
ACCU-1	AIR COOLED CONDENSING UNIT	26	MCA	208	1	24	3/4"	2	8	10A	-	30	2	30	2		EMERGENCY POWER REQUIRED
ACCU-2	AIR COOLED CONDENSING UNIT	26	MCA	208	1	24	3/4"	2	8	10A	-	30	2	30	2		EMERGENCY POWER REQUIRED
ACCU-3	AIR COOLED CONDENSING UNIT	26	MCA	208	1	24	3/4"	2	8	10A	-	30	2	30	2		EMERGENCY POWER REQUIRED
ACCU-4	AIR COOLED CONDENSING UNIT	26	MCA	208	1	24	3/4"	2	10	10A	-	30	2	30	2		EMERGENCY POWER REQUIRED
BC-1	BC CONTROLLER	1.63	MCA	208	1	1.5	3/4"	2	12	10A	-	3	2	30	2		
BC-2	BC CONTROLLER	1.63	MCA	208	1	1.5	3/4"	2	12	10A	-	3	2	30	2		
BC-3	BC CONTROLLER	1.63	MCA	208	1	1.5	3/4"	2	12	10A	-	3	2	30	2		
DCP-1	DOMESTIC CIRCULATION PUMP	0.08	HP	120	1	1	3/4"	2	12	13A	-	-	-	-	-		
DCP-2	DOMESTIC CIRCULATION PUMP	0.08	HP	120	1	1	3/4"	2	12	13A	-	-	-	-	-		
CP-1	CONDENSATE PUMP	1/4	HP	120	1	5.8	3/4"	2	12	13A	-	-	-	-	-		
CP-2	CONDENSATE PUMP	1/4	HP	120	1	5.8	3/4"	2	12	13A	-	-	-	-	-		
CP-3	CONDENSATE PUMP	1/4	HP	120	1	5.8	3/4"	2	12	13A	-	-	-	-	-		
DXFC-1	DX COOLING-ONLY FAN COIL UNIT	1	MCA	208	1	1	3/4"	2	10	10A	-	7	2	30	2		EMERGENCY POWER REQUIRED
DXFC-2	DX COOLING-ONLY FAN COIL UNIT	1	MCA	208	1	1	3/4"	2	10	10A	-	7	2	30	2		EMERGENCY POWER REQUIRED
DXFC-3	DX COOLING-ONLY FAN COIL UNIT	1	MCA	208	1	1	3/4"	2	10	10A	-	7	2	30	2		EMERGENCY POWER REQUIRED
DXFC-4	DX COOLING-ONLY FAN COIL UNIT	1	MCA	208	1	1	3/4"	2	10	10A	-	7	2	30	2		EMERGENCY POWER REQUIRED
EC-1	EVAPORATIVE COOLER	2	HP	208	3	7.8	3/4"	2	10	4A	NEMA 0	15	3	-	-		NEMA 3R
	WATER PUMP	3/4	HP	120	1	13.8	3/4"	2	10	1A	-	-	-	1 HP	1		
EF-1	EXHAUST FAN (KITCHEN GREASE HOOD)	1.5	HP	208	3	6	3/4"	3	12	4A/10B	NEMA 0	10	3	30	3		
EF-2	EXHAUST FAN (KITCHEN DISHWASHER HOOD)	1/4	HP	120	1	5.8	3/4"	2	12	1B	-	-	-	1 HP	1		
EF-3	EXHAUST FAN (EXISTING OFFICE RESTROOM/LUNCH)	1/4	HP	120	1	5.8	3/4"	2	12	1B	-	-	-	1 HP	1		
EF-4	EXHAUST FAN (EXISTING OFFICE ELEV./ELECTRICAL ROOM)	1/4	HP	120	1	5.8	3/4"	2	12	1B	-	-	-	1 HP	1		
EF-5	EXHAUST FAN (EXISTING OFFICE UNISEX RR)	1/6	HP	120	1	4.4	3/4"	2	12	1B	-	-	-	1 HP	1		
EF-6	EXHAUST FAN (EVIDENCE BOOKING)	1/6	HP	120	1	4.4	3/4"	2	12	1B	-	-	-	1 HP	1		
EF-7	EXHAUST FAN (EVIDENCE STORAGE)	1/4	HP	120	1	5.8	3/4"	2	12	1B	-	-	-	1 HP	1		
ERV-1	ENERGY RECOVERY UNIT (10 HP / 10 HP)	62.1	FLA	208	1	62.1	1-1/4"	3	4	12A	-	-	-	-	-		
FC-1	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-2	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-3	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-4	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-5	VRV FAN COIL UNIT	0.96	FLA	208	1	0.96	3/4"	2	10	10A	-	4	2	30	2		
FC-6	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-7	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-8	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-9	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-10	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-11	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-12	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-13	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-14	VRV FAN COIL UNIT	1.06	FLA	208	1	1.06	3/4"	2	10	10A	-	5	2	30	2		
FC-15	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-16	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-17	VRV FAN COIL UNIT	1.19	FLA	208	1	1.19	3/4"	2	10	10A	-	5	2	30	2		
FC-18	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-19	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-20	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-21	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-22	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-23	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-24	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-25	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-26	VRV FAN COIL UNIT	0.85	FLA	208	1	0.85	3/4"	2	10	10A	-	4	2	30	2		
FC-27	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-28	VRV FAN COIL UNIT	1.3	FLA	208	1	1.3	3/4"	2	10	10A	-	5	2	30	2		
FC-29	VRV FAN COIL UNIT	0.68	FLA	208	1	0.68	3/4"	2	10	10A	-	3	2	30	2		
FC-30	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-31	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
FC-32	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-33	VRV FAN COIL UNIT	0.2	FLA	208	1	0.2	3/4"	2	10	10A	-	3	2	30	2		
FC-34	VRV FAN COIL UNIT	0.4	FLA	208	1	0.4	3/4"	2	10	10A	-	3	2	30	2		
HP-1	VARIABLE REFRIGERANT HEAT PUMP	118	MCA	208	3	107	2"	3	3/0	10A	-	180	3	200	3		
HP-2	VARIABLE REFRIGERANT HEAT PUMP	118	MCA	208	3	107	2"	3	3/0	10A	-	180	3	200	3		
HP-3	VARIABLE REFRIGERANT HEAT PUMP	118	MCA	208	3	107	2"	3	3/0	10A	-	180	3	200	3		
MAU-1	MAKE-UP AIR UNIT	1.5	HP	208	3	6.9	3/4"	3	12	4A/10B	NEMA 0	10	3	30	3		
	WATER PUMP	1/2	HP	120	1	9.8	3/4"	2	10	1A	-	-	-	1 HP	1		
OHD-1	OVERHEAD DOOR (EXISTING)																
OHD-2	OVERHEAD DOOR (ROLL-UP, NEW)	VERIFY WITH MOTOR PROVIDED															
RCP-1	ELECTRIC RADIANT CEILING PANEL	375	WATTS	120	1	3.2	3/4"	2	12	1A	-	-	-	1 HP	1		
RTU-1	(SINGLE ZONE) ROOF TOP UNIT (3 TONS)	23.3	MCA	208	3	21	3/4"	3	10	10A	-	30	3	30	3		NEMA 3R
RTU-2	(SINGLE ZONE) ROOF TOP UNIT (4 TONS)	29.4	MCA	208	3	27	3/4"	3	8	10A	-	40	3	60	3		NEMA 3R
RTU-3	(SINGLE ZONE) ROOF TOP UNIT (4 TONS)	29.4	MCA	208	3	27	3/4"	3	8	10A	-	40	3	60	3		NEMA 3R
RTU-4	(SINGLE ZONE) ROOF TOP UNIT (4 TONS)	29.4	MCA	208	3	27	3/4"	3	8	10A	-	40	3	60	3		NEMA 3R
RTU-5	(SINGLE ZONE) ROOF TOP UNIT (2 TONS)	23.3	MCA	208	3	21	3/4"	3	10	10A	-	30	3	30	3		NEMA 3R
RTU-6	(SINGLE ZONE) ROOF TOP UNIT (3 TONS)	23.3	MCA	208	3	21	3/4"	3	10	10A	-	30	3	30	3		NEMA 3R
RTU-7	(SINGLE ZONE) ROOF TOP UNIT (8.5 TONS)	44.7	MCA	208	3	41	1"	3	6	10A	-	60	3	60	3		NEMA 3R
RTU-8	(SINGLE ZONE) ROOF TOP UNIT (3 TONS)	23.3	MCA	208	3	21	3/4"	3	10	10A	-	30	3	30	3		NEMA 3R
RTU-9	(SINGLE ZONE) ROOF TOP UNIT (4 TONS)	29.4	MCA	208	3	27	3/4"	3	8	10A	-	40	3	60	3		NEMA 3R
RTU-10	(SINGLE ZONE) ROOF TOP UNIT (4 TONS)	29.4	MCA	208	3	27	3/4"	3	8	10A	-	40	3	60	3		NEMA 3R
RTU-11	(SINGLE ZONE) ROOF TOP UNIT (3 TONS)	23.3	MCA	208	3	21	3/4"	3	10	10A	-	30	3	30	3		NEMA 3R
RTU-12	(SINGLE ZONE) ROOF TOP UNIT (2.5 TONS)	23.3	MCA	208	3	21	3/4"	3	10	10A	-	30	3	30	3		NEMA 3R
RTU-13	(SINGLE ZONE) ROOF TOP UNIT (6 TONS)	33.9	MCA	208	3	31	3/4"	3	8	10A	-	45	3	60	3		NEMA 3R
RTU-14	(SINGLE ZONE) ROOF TOP UNIT (2.5 TONS)	23.3	MCA	208	3	21	3/4"	3	10	10A	-	30	3	30	3		NEMA 3R
WH-1	DOMESTIC HOT WATER HEATER	3	FLA	120	1	3	3/4"	2	12	9A	-	-	-	30	2		
WH-2	DOMESTIC HOT WATER HEATER	3	FLA	120	1	3	3/4"	2	12	9A	-	-	-	30	2		
WH-3	DOMESTIC HOT WATER HEATER	3	FLA	120	1	3	3/4"	2	12	9A	-	-	-	30	2		
WS-1	WATER SOFTENER	1200	WATTS	120	1	10	3/4"	2	12	13A	-	-	-	-	-		

SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

STARTER / DISCONNECT NOTES:

1. MANUAL STARTER WITH THERMAL OVERLOAD
2. MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR FOR ATC CONTROL
3. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT
4. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
5. COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)
6. REDUCED VOLTAGE STARTER
7. COMBINATION TWO-SPEED STARTER / FUSED DISCONNECT
8. COMBINATION TWO-SPEED STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
9. NON-FUSED DISCONNECT SWITCH
10. FUSED DISCONNECT SWITCH
11. BREAKER AND ENCLOSURE
12. DIRECT CONNECTION
13. DUPLEX RECEPTACLE OUTLET
14. SPECIAL PURPOSE OUTLET
15. SHUNT-TRIP BREAKER AND ENCLOSURE
16. TOGGLE SWITCH
17. MAGNETIC STARTER

INSTALLATION NOTES:

A. FURNISHED, INSTALLED, & CONNECTED UNDER DIVISION 26.
B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 26.
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.
D. FURNISHED, INSTALLED, & CONNECTED UNDER ANOTHER DIVISION
E. FURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 26

PROFESSIONAL ENGINEER
DAVID D. WHITTON
No. 394397
3/19/12
STATE OF UTAH

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:
CHECKED BY:
OWNER PROJECT NO.:
ENVISION PROJECT NO.: 2011-181.00
ISSUED DATE: 3/19/2012

EQUIPMENT SCHEDULES

EP601

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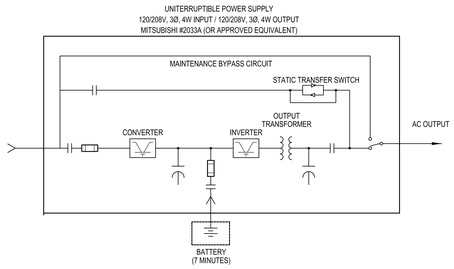
VOLTAGE DROP UPSIZING CHART FOR 20 AMP, SINGLE PHASE BRANCH CIRCUITS		
120 VOLTS		
LENGTH (FT)	CONDUCTOR SIZE	CONDUIT SIZE
0-55	(3) #12	3/4"
56-95	(3) #10	3/4"
96-145	(3) #8	3/4"
146-230	(3) #6	1"

NOTES:
A. CONTRACTOR SHALL BE RESPONSIBLE TO INCREASE CONDUCTORS BASED ON THE LENGTH OF THE BRANCH CIRCUIT RUN.

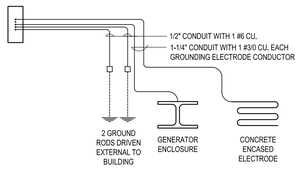
2 EP701 BRANCH CIRCUIT VOLTAGE DROP TABLE
NO SCALE



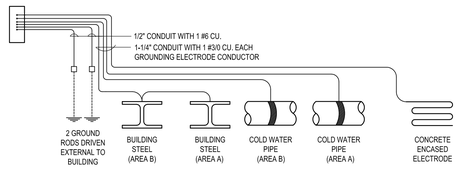
3 EP701 UPS WIRING DIAGRAM
NO SCALE

ONE-LINE KEYED NOTES:

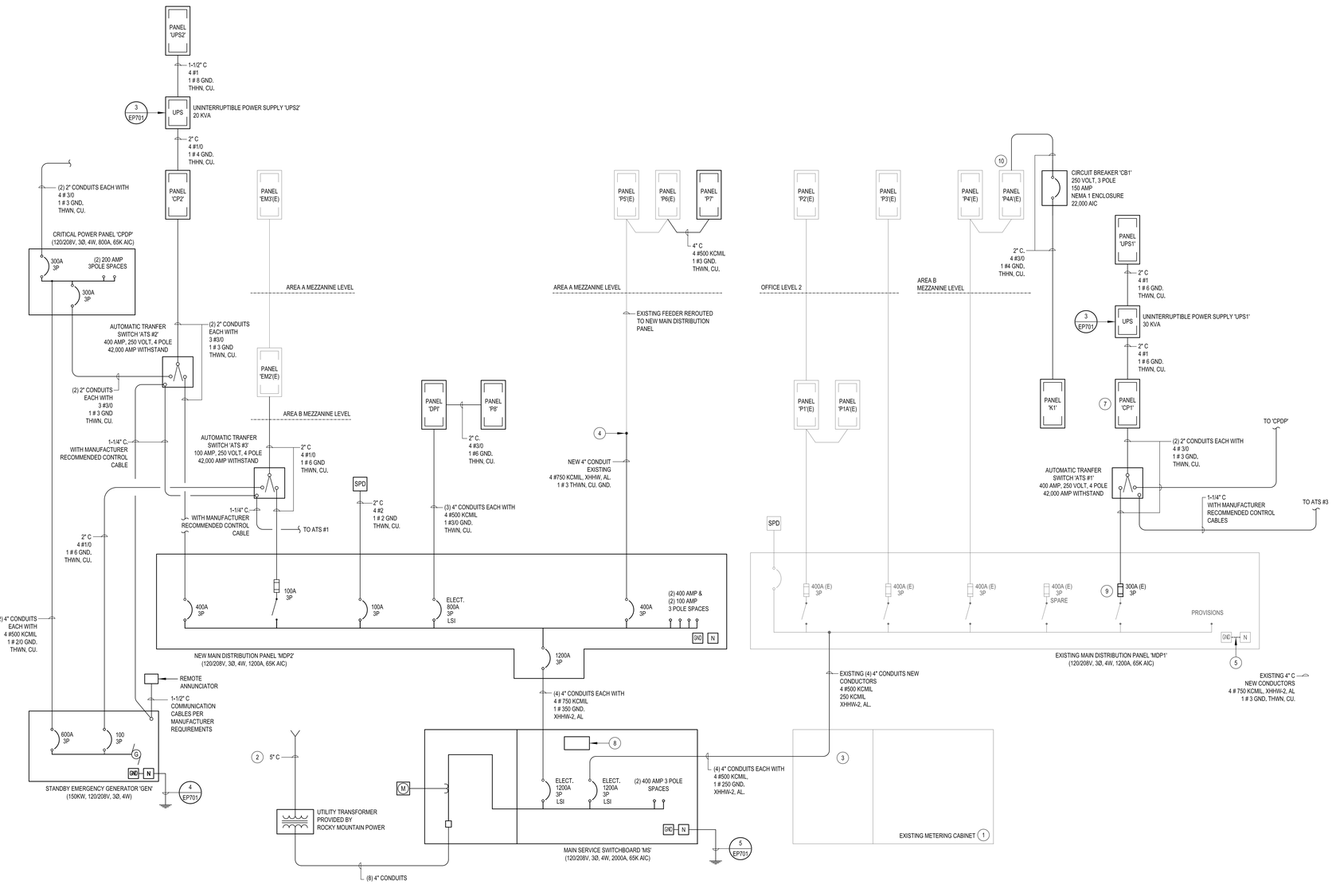
1. REMOVE EXISTING METERING PROVISION FROM THE EXISTING CURRENT TRANSFORMER (CT) CABINET. THIS EXISTING CABINET SHALL USED FOR A PULL POINT.
2. STUB 5" CONDUIT WITH LONG SWEEP ELBOW TO ROCKY MOUNTAINS POWER POLE. COORDINATE REQUIREMENTS WITH RMP.
3. PULL IN NEW CONDUCTORS UTILIZING EXISTING CONDUITS.
4. INTERCEPT EXISTING CONDUIT AND CONDUCTORS AND EXTEND TO NEW MAIN DISTRIBUTION PANEL 'MDP2'. THE INTENT IS TO PULL OUT THE EXISTING CONDUCTORS AS NECESSARY TO ALLOW FEEDER TO BE REROUTED TO THE NEW MAIN DISTRIBUTION PANEL. CARE SHALL BE TAKEN NOT TO DAMAGE THE EXISTING CONDUCTORS WHILE PULLING THEM BACK.
5. REMOVE THE EXISTING MAIN BONDING JUMPER FROM MAIN DISTRIBUTION PANEL 'MDP1'.
6. NOT USED.
7. RENAME EXISTING PANEL 'E1' TO PANEL 'CP1'. PROVIDE A NEW MYCARTA LABEL FOR THIS PANEL.
8. PROVIDE PLAQUE WITH AVAILABLE FAULT CURRENT FROM UTILITY ON THE MAIN SWITCHBOARD AS REQUIRED BY CODE. CONTRACTOR CAN GET FAULT CURRENT FROM ELECTRICAL ENGINEER ONCE CONSTRUCTION HAS STARTED.
9. PROVIDE NEW FUSE.
10. PROVIDE SUBFEED LUGS OR TAP BUS AS NECESSARY TO FEED CIRCUIT BREAKER 'CB1'.



4 EP701 GROUNDING DETAIL
NO SCALE



5 EP701 GROUNDING DETAIL
NO SCALE



1 EP701 ONE-LINE DIAGRAM
NO SCALE

ONE-LINE SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PANEL 'A'	LIGHTING AND APPLIANCE PANEL BOARD		FUSE CUT OUT
PANEL 'A'	LOAD CENTER		DRAWOUT CIRCUIT BREAKER
	CIRCUIT BREAKER		
	CIRCUIT BREAKER & ENCLOSURE		MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
	FUSED SWITCH		THERMAL OVERLOAD
	MOTOR	C	RELAY/COIL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		NORMALLY CLOSED CONTACT
	DISCONNECT SWITCH		NORMALLY OPEN CONTACT
		K	KEY INTERLOCK
	FUSED DISCONNECT SWITCH		COMBINATION FUSIBLE STARTER WITH THERMAL OVERLOAD
M	METER		
	CT TRANSFORMER		COMBINATION MCP STARTER WITH THERMAL OVERLOAD
	GROUNDING ELECTRODE & CONDUCTOR		
	AUTOMATIC TRANSFER SWITCH		ELECTRONIC CIRCUIT BREAKER
G	GENERATOR		
	GUTTER		ELECTRONIC CIRCUIT BREAKER WITH GROUND FAULT PROTECTION
	TRANSFORMER	GFP	
	POWER FACTOR CORRECTION CAPACITOR & ENCLOSURE	C	SHUNT TRIP CIRCUIT BREAKER
	CT CABINET PER UTILITIES REQUIREMENTS	PF	PHASE FAILURE RELAY
	PULLING SECTION PER UTILITIES REQUIREMENTS		MUSHROOM PUSH BUTTON
			ISOLATION BYPASS AUTOMATIC TRANSFER SWITCH

PROFESSIONAL ENGINEER DAVID F. WHITTON No. 324507 3/19/12 STATE OF UTAH

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ONE-LINE DIAGRAM

EP701

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DISTRIBUTION PANEL LOADS

PANEL NAME: MS
PANEL TYPE:
[X] FLOOR MOUNTED
[ ] WALL MOUNTED
[X] SERVICE ENTRANCE RATED
[X] ENGRAVED NAME TAGS
BUS AMPS: 2000
VOLTAGE: 120/208
[X] 3 PHASE, 4 WIRE
[ ] 3 PHASE, 3 WIRE
[ ] 1 PHASE, 3 WIRE

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED
A.I.C. RATING: [ ] 22,000 AMPS SYM [ ] 35,000 AMPS SYM [ ] 42,000 AMPS SYM [X] 65,000 AMPS SYM [ ] 100,000 AMPS SYM
BUS MATERIAL: [ ] ALUMINUM [X] COPPER
GROUND: [X] GROUND BUS [ ] ISOL GND BUS
NEUTRAL: [X] 100% [ ] 200%
NEMA RATING: [ ] NEMA 1 [X] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

*NOTE: REFER TO ONE-LINE DIAGRAM FOR FEEDER, CONDUIT, CONDUCTOR SIZES, BREAKERS, SPARES, SPACES, ETC. REQUIRED FOR THIS PANEL.

BRANCH BREAKERS

NOTES	ITEM	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	ITEM	NOTES
	MDP1	113842							
	-		110610						
	-			113022					
	MDP2	121916							
	-		117785						
	-			118663					
	KITCHEN EQUIP. DIV.	-4109							
	-		-4109						
	-			-4109					
	DRYER LOAD	-4000							
	-		-4000						
	-			-4000					
	C.O. DIVERSITY	-25334							
			-25334						
				-25334					
		202315	194952	198242					
	TOTAL VA / PHASE	202315	194952	198242					
	AMPS / PHASE	1686	1625	1652					

TOTAL CONNECTED LOAD: 595,509 VA

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P1 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W
[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [ ] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ___ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	OFFICE LIGHTING LEVEL 1	20	1		1	1500			1080			2	20	1		OFFICE LEVEL 1 C.O.	
	OFFICE LIGHTING LEVEL 1	20	1		3		1000			1080		4	20	1		OFFICE LEVEL 1 C.O.	
	OFFICE LIGHTING LEVEL 1	20	1		5			1500			1080	6	20	1		OFFICE LEVEL 1 C.O.	
	SPARE	20	1		7				1080			8	20	1		OFFICE LEVEL 1 C.O.	
	PANEL P2	125	3		9		10940			1080		10	20	1		OFFICE LEVEL 1 C.O.	
	-	-	-		11			10540			1080	12	20	1		OFFICE LEVEL 1 C.O.	
	-	-	-		13	10540			180			14	20	1		MICROWAVE	
	SPARE	20	1		15					180		16	20	1		MICROWAVE	
	SPARE	20	1		17						180	18	20	1		MICROWAVE	
	SPARE	20	1		19				1000			20	20	1		REFRIGERATOR	
	TVSS	30	3		21					180		22	20	1		COFFEE MAKER	
	TVSS	20	1		23						180	24	20	1		COFFEE MAKER	
	TVSS	20	1		25				180			26	20	1		VENDING MACHINE	
	HEAT TRACE	20	1		27		500			180		28	20	1		VENDING MACHINE	
	FLAG POLE LIGHT	20	1		29			500			1080	30	20	1		OFFICE LEVEL 1 C.O.	
	GENERATOR BATT. CHARG.	20	1		31	500			1080			32	20	1		OFFICE LEVEL 1 C.O.	
	DIESEL FUEL TANK HTR	20	1		33		2000			1080		34	20	1		OFFICE LEVEL 1 C.O.	
	JACKET WATER HEATER	20	1		35			2000			1000	36	20	1		FURNITURE SYSTEM	
	ELEVATOR	125	3		37	8400			1000			38	20	1		FURNITURE SYSTEM	
	-	-	-	-	39		8400					40	20	1		SPARE	
	-	-	-	-	41			8400				42	20	1		SPARE	
						20940	22840	22940	5600	3780	4600						
					TOTAL	26540	26620	27540									
					AMPS / PHASE	221	222	230									

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR
MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW
TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"
NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL
TOTAL CONNECTED LOAD: 80,700
SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED
65,000 AMPS RMS SYM
REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P3 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W
[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [ ] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ___ BUS AMPS: 400

BRANCH BREAKERS

KEYED NOTE	NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES	KEYED NOTE
		RTU-1 (3 TON)	30	3		1	2520			2520			2	30	3		RTU-8 (3 TON)		
		-	-	-		3		2520			2520		4	-	-		-		
		-	-	-		5			2520			2520	6	-	-		-		
(1)	5,8	RTU-2 (4 TON)	40	3	8	7	3240			3240			8	40	3	8	RTU-9 (4 TON)	5,8	(1)
		-	-	-		9		3240			3240		10	-	-		-		
		-	-	-		11			3240			3240	12	-	-		-		
(1)	5,8	RTU-3 (4 TON)	40	3	8	13	3240			3240			14	40	3	8	RTU-10 (4 TON)	5,8	(1)
		-	-	-		15		3240			3240		16	-	-		-		
		-	-	-		17			3240			3240	18	-	-		-		
(1)	5,8	RTU-4 (4 TON)	40	3	8	19	3240			2520			20	30	3		RTU-11 (3 TON)		
		-	-	-		21		3240			2520		22	-	-		-		
		-	-	-		23			3240			2520	24	-	-		-		
		RTU-5 (3 TON)	30	3		25	2520			2520			26	30	3		RTU-12 (2.5 TON)		
		-	-	-		27		2520			2520		28	-	-		-		
		-	-	-		29			2520			2520	30	-	-		-		
		RTU-6 (3 TON)	30	3		31	2520			3720			32	50	3		RTU-13 (6 TON)		
		-	-	-		33		2520			3720		34	-	-		-		
		-	-	-		35			2520			3720	36	-	-		-		
	5,8	RTU-7 (8.5 TON)	60	3	6	37	4920			2520			38	30	3		RTU-14 (2.5 TON)		
(1)		-	-	-		39		4920			2520		40	-	-		-		
		-	-	-		41			4920			2520	42	-	-		-		
							22200	22200	22200	20280	20280	20280							
						TOTAL	42480	42480	42480										
						AMPS / PHASE	354	354	354										

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR
MOUNTING: [X] FLUSH [ ] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW
TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"
NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL
TOTAL CONNECTED LOAD: 127,440
SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED
65,000 AMPS RMS SYM
REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

DISTRIBUTION PANEL LOADS

PANEL NAME: MDP1 (EXISTING)
PANEL TYPE:
[X] FLOOR MOUNTED
[ ] WALL MOUNTED
[X] SERVICE ENTRANCE RATED
[X] ENGRAVED NAME TAGS
BUS AMPS: 1200
VOLTAGE: 120/208
[X] 3 PHASE, 4 WIRE
[ ] 3 PHASE, 3 WIRE
[ ] 1 PHASE, 3 WIRE

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED
A.I.C. RATING: [ ] 22,000 AMPS SYM [ ] 35,000 AMPS SYM [ ] 42,000 AMPS SYM [X] 65,000 AMPS SYM [ ] 100,000 AMPS SYM
BUS MATERIAL: [ ] ALUMINUM [X] COPPER
GROUND: [X] GROUND BUS [ ] ISOL GND BUS
NEUTRAL: [X] 100% [ ] 200%
NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

*NOTE: REFER TO ONE-LINE DIAGRAM FOR FEEDER, CONDUIT, CONDUCTOR SIZES, BREAKERS, SPARES, SPACES, ETC. REQUIRED FOR THIS PANEL.

BRANCH BREAKERS

NOTES	ITEM	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	ITEM	NOTES
	PANEL P1,P1A	27680							
	-		26620						
	-			27540					
	PANEL P3	42480							
	-		42480						
	-			42480					
	PANEL 4,4A	26117							
	-		24413						
	-			23908					
	PANEL CP1	19215							
	-		16428						
	-			18939					
		115492	109941	112867					
	TOTAL VA / PHASE	115492	109941	112867					
	AMPS / PHASE	962	916	941					

TOTAL CONNECTED LOAD: 338,300 VA

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P1A (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W
[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ___ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	NORTH EXT. CO.	20	1	10	1	180						2	20	1		SPARE	
	TV RECEPTACLE	20	1	12	3		960					4	20	1		SPARE	
	TV RECEPTACLE	20	1	12	5			960				6	20	1		SPARE	
	TV RECEPTACLE	20	1	12	7	960						8	20	1		SPARE	
	SPARE	20	1		9							10	20	1		SPARE	
	SPARE	20	1		11							12	20	1		SPARE	
	SPARE	20	1		13							14	20	1		SPARE	
	SPARE	20	1		15							16	20	1		SPARE	
	SPARE	20	1		17							18	20	1		SPARE	
	SPARE	20	1		19							20	20	1		SPARE	
	SPARE	20	1		21							22	20	1		SPARE	
	SPARE	20	1		23							24	20	1		SPARE	
	SPARE	20	1		25							26	20	1		SPARE	
	SPARE	20	1		27							28	20	1		SPARE	
	SPARE	20	1		29							30	20	1		SPARE	
	SPARE	20	1		31							32	20	1		SPARE	
	SPARE	20	1		33							34	20	1		SPARE	
	SPARE	20	1		35							36	20	1		SPARE	
	SPARE	20	1		37							38	20	1		SPARE	
	SPARE	20	1		39							40	20	1		SPARE	
	SPARE	20	1		41							42	20	1		SPARE	
						1140	960	960									
					TOTAL	1140	960	960									
					AMPS / PHASE	10	8	8									

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR
MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW
TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"
NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL
TOTAL CONNECTED LOAD: 3,060
SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED
65,000 AMPS RMS SYM
REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P4 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W
[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [ ] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ___ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	KITCHEN 112 LIGHTS	20	1	10	1	1440			720			2	20	1	12	ALCOVE 104 C.O.	
	KITCHEN 112 LIGHTS	20	1	10	3		1536			720		4	20	1	12	TREATMENT 110 C.O.	
	CORR. 114, 111, 113 LTS	20	1	10	5			1088			360	6	20	1	12	TREATMENT 110 C.O.	
	TREATMENT 110 LTS	20	1	12	7	768			720			8	20	1	12	TREATMENT 110 C.O.	
	TREATMENT 110 LTS	20	1	12	9		768			400		10	20	1	12	TREATMENT 110 TV C.O.	
	TREATMENT 110 LTS	20	1	12	11			768			400	12	20	1	12	TREATMENT 110 TV C.O.	
	CORR 102, H. CELL LTS	20	1	12	13	960			400			14	20	1	12	TREATMENT 110 TV C.O.	
	SPARE	20	1		15					1200		16	20	1	12	CORR. 102 EWC	1
	SPARE	20	1		17						540	18	20	1	12	CORR. 102 C.O.	
	EF-2	20	1	12	19	698			1200			20	20	1	10	VENDING	1
	ROOF OUTLETS	20	1	10	21		360			1200		22	20	1	10	VENDING	1
	ANSUL PANEL	20	1	10	23			500			1200	24	20	1	10	VENDING	1
	SPARE	20	1		25				1800			26	20	1	10	VENDING	1
	SPARE	20	1		27					180		28	20	1	12	WORK COUNTER (E55)	
	SPARE	20	1		29						1236	30	20	1	12	K64 (E56)	
	SPARE	20	1		31				540			32	20	1	10	CORRIDOR 114 C.O.	
	SPARE	20	1		33					540		34	20	1	10	REST ROOM C.O.	
	SPARE	20	1		35						540	36	20	1	10	KITCHEN OFFICE C.O.	
	SPARE	20	1		37							38	20	1		SPARE	
	SPARE	20	1		39							40	20	1		SPARE	
	SPARE	20	1		41							42	20	1		SPARE	
						3866	2664	2356	5380	4240	4276						
					TOTAL	9246	6904	6632									
					AMPS / PHASE	77	58	55									

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR
MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW
TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"
NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL
TOTAL CONNECTED LOAD: 22,782
SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED
65,000 AMPS RMS SYM
REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

DISTRIBUTION PANEL LOADS

PANEL NAME: MDP2
PANEL TYPE:
[X] FLOOR MOUNTED
[ ] WALL MOUNTED
[X] SERVICE ENTRANCE RATED
[X] ENGRAVED NAME TAGS
BUS AMPS: 1200
VOLTAGE: 120/208
[X] 3 PHASE, 4 WIRE
[ ] 3 PHASE, 3 WIRE
[ ] 1 PHASE, 3 WIRE

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED
A.I.C. RATING: [ ] 22,000 AMPS SYM [ ] 35,000 AMPS SYM [ ] 42,000 AMPS SYM [X] 65,000 AMPS SYM [ ] 100,000 AMPS SYM
BUS MATERIAL: [ ] ALUMINUM [X] COPPER
GROUND: [X] GROUND BUS [ ] ISOL GND BUS
NEUTRAL: [X] 100% [ ] 200%
NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

*NOTE: REFER TO ONE-LINE DIAGRAM FOR FEEDER, CONDUIT, CONDUCTOR SIZES, BREAKERS, SPARES, SPACES, ETC. REQUIRED FOR THIS PANEL.

BRANCH BREAKERS

NOTES	ITEM	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	ITEM	NOTES
	PANEL P5,P6,P7	37312							
	-		36618						
	-			35440					
	PANEL DP1	66657							
	-		64257						
	-			65127					
	PANEL E2, E3	3137							
	-		2100						
	-			3600					
	PANEL CP2	14810							
	-		14810						
	-			14496					
		121916	117785	118663					
	TOTAL VA / PHASE	121916	117785	118663					
	AMPS / PHASE	1016	982	989					

TOTAL CONNECTED LOAD: 358,364 VA

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P2 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W
[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [ ] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ___ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	OFFICE LIGHTING LEVEL 2	20	1		1	1000			1080			2	20	1		OFFICE LEVEL 2 C.O.	
	OFFICE LIGHTING LEVEL 2	20	1		3		900			1080		4	20	1		OFFICE LEVEL 2 C.O.	
	OFFICE LIGHTING LEVEL 2	20	1		5			900			1080	6	20	1		OFFICE LEVEL 2 C.O.	
	OFFICE LIGHTING LEVEL 2	20	1		7	900			1080			8	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		9					1080		10	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		11						1080	12	20	1		OFFICE LEVEL 2 C.O.	
	OFFICE LEVEL 2 C.O.	20	1		13	1080			1080			14	20	1		OFFICE LEVEL 2 C.O.	
	OFFICE LEVEL 2 C.O.	20	1		15		1080			1080		16	20	1		OFFICE LEVEL 2 C.O.	
	OFFICE LEVEL 2 C.O.	20	1		17			1080			1080	18	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		19				1080			20	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	30	3		21					1080		22	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		23						1080	24	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		25				1080			26	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		27					1080		28	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		29						1080	30	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		31				1080			32	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		33					1080		34	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		35						1080	36	20	1		OFFICE LEVEL 2 C.O.	
	SPARE	20	1		37				1080			38	20	1		OFFICE LEVEL 2 C.O.	
	EF-1, EF-4	20	1		39		1400			1080		40	20	1		OFFICE LEVEL 2 C.O.	
	ROOF OUTLET	20	1		41			1000			1080	42	20	1		OFFICE LEVEL 2 C.O.	
						2980	3380	2980	7560	7560	7560						
					TOTAL	10540	10940	10540									
					AMPS / PHASE	88	91	88									

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR
MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW
TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"
NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL
TOTAL CONNECTED LOAD: 32,020
SHORT CIRCUIT RATING: [X] SERIES - RATED [ ] FULLY - RATED
65,000 AMPS RMS SYM
REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P4A (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W
[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ___ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	OHD-1	20	1	10	1	1000			1224			2	20	1	10	EF-6,7	
	WH-1	20	1	10	3		360			170		4	20	2	10	BC-2	
	FC-14,18,19,20,21,22	20	2	10	5			360			170	6	-	-	-	-	
	-	-	-	-	7	360			830			8	20	3	10	MAU-1	
	K2B (E3)	20	1	10	9		1200			830		10	-	-	-	-	
	K2A (E7)	20	1	10	11			1200			830	12	-	-	-	-	
	CP-1, WATER SOFTENER	20	1	12	13	400						14	20	1		SPARE	
	SPARE	20	1		15					528		16	20	1	10	EF-2	
	SPARE	20	1		17						180	18	20	1	10	ROOF C.O.	
	GEN. BATT. CHARGER	20	1	8	19	500			830			20	20	3	10	EF-1	
	GEN. BLOCK HTR.	20	2	8	21		1800			830		22	-	-	-	-	
	-	-	-	-	23			1800			830	24	-	-	-	-	
	SPARE	20	1		25				200			26	20	1	12	CP-1 FOR BC-2	
	SPARE	20	1		27							28	20	1		SPARE	
	SPARE	20	1		29							30	20	1		SPARE	
	SPARE	20	1		31							32	20	1		SPARE	
	SPARE	20	1		33							34	20	1		SPARE	
	SPARE	20	1		35							36	20	1		SPARE	
	SPARE	20	1		37				11527			38	150	3	2/0	PANEL 'K1'	
	SPARE	20	1		39					11791		40	-	-	-	-	
	SPARE	20	1		41						11906	42	-	-	-	-	
						2260	3360	3360	14611	14149	13916						
					TOTAL	16871	17509	17276									
					AMPS / PHASE	141	146	144									

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR
MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW
TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"
NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL
TOTAL CONNECTED LOAD: 51,656
SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED
65,000 AMPS RMS SYM
REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

PANELBOARD KEYED NOTES:

(1) EXISTING CIRCUIT BREAKER TO BE REPLACED WITH NEW CIRCUIT BREAKER WITH THE SAME MANUFACTURER AND AIC RATING AS EXISTING. THE EXISTING FEEDER SHALL BE REPLACED WITH NEW AS SHOWN. EXISTING CONDUIT MAY BE REUSED IF EXISTING CONDUIT IS SIZED TO HANDLE NEW FEEDER SIZE PER NEC REQUIREMENTS.

PANELBOARD SCHEDULE NOTES:
1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYPE CIRCUIT BREAKER.
4. PROVIDE SHUNT-TRIP TYPE CIRCUIT BREAKER WITH 120V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS INDICATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD.

PANEL LEGEND

MS	P1	P3
MDP1	P1A	P4
MDP2	P2	P4A

PROFESSIONAL ENGINEER DAVID P. WHITTON No. 264297 3/19/12 STATE OF UTAH

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

THE GREAT SEAL OF THE STATE OF UTAH 1896

DRAWN BY:
CHECKED BY:
OWNER PROJECT NO.:
ENVISION PROJECT NO.: 2011-181.00
ISSUED DATE: 3/19/2012

PANEL SCHEDULES

EP801

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P5 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	DORM 1,2,3 LIGHTS	20	1	12	1	1602			1000			2	20	1	10	IR-1	
	DORM 4,8,9 LIGHTS	20	1	12	3		1602			1000		4	20	1	10	IR-2	
	DORM 5,6,7 LIGHTS	20	1	12	5			1602			1000	6	20	1	10	IR-3	
	DORM 10,11,12 LIGHTS	20	1	12	7	1602			1000			8	20	1	10	IR-4	
	DORM 13,17 LIGHTS	20	1	12	9		1068			1200		10	20	1	10	OHD-1	
	DORM 14,15,16 LIGHTS	20	1	12	11			1602			1200	12	20	1	10	OHD-1	
	RM 150-153 LIGHTS	20	1	12	13	988			1000			14	20	1	10	EC-1 WATER PUMP	
	RM 123, 125, 136-140, 147,148 LTS	20	1	12	15		1186			1000		16	20	1	10	OHD-1	
	LVL 1 CORRIDOR 133 LTS	20	1	12	17			1428			180	18	20	1	12	C.O. ON MECHANICAL ERU	
	RECEIVING LIGHTS	20	1	12	19	1116						20	20	1		SPARE	
	LVL 2 CORRIDOR 200 LTS	20	1	12	21		1260			800		22	20	1	12	TELEVISION OUTLET	
	INDOOR REC YARD LIGHTS	20	1	12	23			1674			800	24	20	1	12	TELEVISION OUTLET	
	LVL 1 CORRIDOR 133 LTS	20	1	12	25	924			1200			26	20	1	12	FSD - LEVEL 1	
	MECHANICAL CHASE LIGHTS	20	1	12	27		522			1200		28	20	1	12	FSD - LEVEL 1	
	JAN 206 AND STOR 213 LTS	20	1	12	29			754			1000	30	20	1	12	FSD - LEVEL 2	
	SOUTH STRUCTURE C.O.	20	3	10	31	540						32	20	1		SPARE	
	SOUTH STRUCTURE C.O.	-	-	-	33		180					34	20	1		SPARE	
	SOUTH STRUCTURE C.O.	-	-	-	35			180			900	36	20	1	10	NORTH STRUCTURE LTS.	
	SOUTH STRUCTURE LTS.	20	1	10	37	1400			180			38	20	3	10	NORTH STRUCTURE C.O.	
	CP-1s FOR BC-1,3 C.O.	20	1	12	39		400			180		40	-	-	-	NORTH STRUCTURE C.O.	
	SPARE	20	1		41						180	42	-	-	-	NORTH STRUCTURE C.O.	
						8172	6218	7240	4380	5380	5260						
						12552	11598	12500	TOTAL								
						105	97	104	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 36,650

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P8 TYPE: NQOB CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 225

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	WASHER	20	1	12	1	1176			2800			2	30	2	10	DRYER	
	WASHER	20	1	12	3		1176			2800		4	-	-	-	-	
	WASHER	20	1	12	5			1176			2800	6	30	2	10	DRYER	
	WASHER	20	1	12	7	1176			2800			8	-	-	-	-	
	WASHER	20	1	12	9		1176			2800		10	30	2	10	DRYER	
	WASHER	20	1	12	11			1176			2800	12	-	-	-	-	
	MAINTENANCE 152 C.O.	20	1	12	13	900			2800			14	30	2	10	DRYER	
	RECEIVING 154 C.O.	20	1	12	15		540			2800		16	-	-	-	-	
	RECEIVING 154 C.O.	20	1	12	17			900			2800	18	30	2	10	DRYER	
	INDOOR REC. C.O.	20	1	10	19	720			2800			20	-	-	-	-	
	MECH. YARD C.O.	20	1	12	21		180			2800		22	30	2	10	DRYER	
	DRYER OUTLETS	20	1	12	23			400			2800	24	-	-	-	-	
	DRYER OUTLETS	20	1	12	25	400			1200			26	20	1	12	UNIT HEATERS	
	DRYER OUTLETS	20	1	12	27		400			1000		28	20	2	12	DOCK LEVELER	
	SPARE	20	1		29						1000	30	-	-	-	-	
	SPARE	20	1		31				600			32	20	1	12	DRYER C.O.	
	SPARE	20	1		33					600		34	20	1	12	DRYER C.O.	
	SPARE	20	1		35						600	36	20	1	12	DRYER C.O.	
	SPARE	20	1		37				600			38	20	1	12	DRYER C.O.	
	SPARE	20	1		39					600		40	20	1	12	DRYER C.O.	
	SPARE	20	1		41						600	42	20	1	12	DRYER C.O.	
						4372	3472	3652	13600	13400	13400						
						17972	16872	17052	TOTAL								
						150	141	142	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 51,896

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: CP2 TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	DXFC-1,2,3	20	2	10	1	480			5400			2	90	3	1/0	UPS2	
	-	-	-	-	3		480			5400		4	-	-	-	-	
	RMS 134,147,201,212 LTS	20	1	10	5			866			5200	6	-	-	-	-	
	INTERCOM PANEL	20	1	12	7	500			4215			8	30	2	6	ACCU-1	
	CARD ACCESS PANEL	20	1	12	9		500			4215		10	-	-	-	-	
	SPARE	20	1		11						4215	12	30	2	6	ACCU-2	
	SPARE	20	1		13				4215			14	-	-	-	-	
	SPARE	20	1		15					4215		16	30	2	6	ACCU-3	
	SPARE	20	1		17						4215	18	-	-	-	-	
	SPARE	20	1		19							20	20	1		SPARE	
	SPARE	20	1		21							22	20	1		SPARE	
	SPARE	20	1		23							24	20	1		SPARE	
	SPACE	20	1		25							26	20	1		SPARE	
	SPACE	20	1		27							28	20	1		SPARE	
	SPACE	20	1		29							30	20	1		SPACE	
	SPACE	20	1		31							32	20	1		SPACE	
	SPACE	20	1		33							34	20	1		SPACE	
	SPACE	20	1		35							36	20	1		SPACE	
	SPACE	20	1		37							38	20	1		SPACE	
	SPACE	20	1		39							40	20	1		SPACE	
	SPACE	20	1		41							42	20	1		SPACE	
						980	980	866	13830	13830	13630						
						14810	14810	14496	TOTAL								
						123	123	121	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 44,116

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

22,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P6 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	CORRIDOR 146 C.O.	20	1	12	1	900			180			2	20	1	10	ELECT. ROOM 124 C.O.	
	DATA 147 C.O.	20	1	12	3		180			540		4	20	1	10	BOOKING 123 C.O.	
	RR 149 /STOR./CORR. C.O.	20	1	12	5			540			540	6	20	1	10	BOOKING 123 C.O.	
	DORM 4 144 C.O.	20	1	12	7	720			720			8	20	1	10	DORM 5 127 C.O.	
	DORM 4 BED C.O.	20	1	12	9		1080			1080		10	20	1	10	DORM 5 BED C.O.	
	DORM 4 BED C.O.	20	1	12	11			1080			1080	12	20	1	10	DORM 5 BED C.O.	
	DORM 4 BED C.O.	20	1	12	13	1080			1080			14	20	1	10	DORM 5 BED C.O.	
	DORM 3 143 C.O.	20	1	12	15		720			720		16	20	1	10	DORM 6 128 C.O.	
	DORM 3 BED C.O.	20	1	12	17			1080			1080	18	20	1	10	DORM 6 BED C.O.	
	DORM 3 BED C.O.	20	1	12	19	1080			1080			20	20	1	10	DORM 6 BED C.O.	
	DORM 3 BED C.O.	20	1	12	21		1080			1080		22	20	1	10	DORM 6 BED C.O.	
	DORM 2 142 C.O.	20	1	12	23			720			900	24	20	1	10	DORM 7 129 C.O.	
	DORM 2 BED C.O.	20	1	12	25	1080			1080			26	20	1	10	DORM 7 BED C.O.	
	DORM 2 BED C.O.	20	1	12	27		1080			1080		28	20	1	10	DORM 7 BED C.O.	
	DORM 2BED C.O.	20	1	12	29			1080			1080	30	20	1	10	DORM 7 BED C.O.	
	DORM 1 141 C.O.	20	1	10	31	720			720			32	20	1	10	DORM 8 130 C.O.	
	DORM 1 BED C.O.	20	1	10	33		1080			1080		34	20	1	10	DORM 8 BED C.O.	
	DORM 1 BED C.O.	20	1	10	35			1080			1080	36	20	1	10	DORM 8 BED C.O.	
	DORM 1BED C.O.	20	1	10	37	1080			1080			38	20	1	10	DORM 8 BED C.O.	
	140,138,137,136 C.O.	20	1	10	39		1260			1200		40	20	1	12	TV OUTLET & 201 C.O.	
	SPARE	20	1		41							42	20	1		SPARE	
						6660	6480	5580	5940	6780	5760						
						12600	13260	11340	TOTAL								
						105	111	95	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 37,200

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: DP1 TYPE: I-LINE CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 800

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
5	CU-1	200	3	3/0	1	12840			510			2	20	2	10	BC-1 ,2,3	
	-	-	-	-	3		12840			510		4	-	-	-	-	
	-	-	-	-	5			12840			120	6	20	1	10	GATE OPERATOR	
5	CU-2	200	3	3/0	7	12840			1200			8	20	1		SPARE	
	-	-	-	-	9		12840			940		10	20	3	12	EC-1	
	-	-	-	-	11			12840			940	12	-	-	-	-	
5	CU-3	200	3	3/0	13	12840			940			14	-	-	-	-	
	-	-	-	-	15		12840					16	20	1		SPACE	
	-	-	-	-	17			12840				18	20	1		SPACE	
5	ERV-1	80	3	4	19	6315						20	20	1		SPACE	
	-	-	-	-	21		6315					22	20	1		SPACE	
	-	-	-	-	23			6315				24	20	1		SPACE	
	SPACE	20	1		25							26	20	1		SPACE	
	SPACE	20	1		27							28	20	1		SPACE	
	SPACE	20	1	-	29							30	20	1		SPACE	
	FC-12,13,23,24,25,32,33,34	20	2	10	31	600						32	20	1		SPACE	
	1,2	-	-	-	33		600					34	20	1		SPACE	
	FC-15,16,17,26,27,28,29	20	2	10	35			600				36	20	1		SPACE	
	30,31	-	-	-	37	600			17972			38	200	3	3/0	PANEL P8	
	FC-3,4,5,6,7,8,9,10	20	2	10	39		500			16872		40	-	-	-	-	
	-	-	-	-	41			500			17052	42	-	-	-	-	
						46035	45935	45935	20622	18322	18112						
						66657	64257	64047	TOTAL								
						555	535	534	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 194,961

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: UPS1 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [X] AMPS 125 BUS AMPS: 225

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	COMPUTER C.O. LEVEL 1	20	1		1	1080						2	20	1		SPARE	
	COMPUTER C.O. LEVEL 1	20	1		3		1080			500		4	20	1		SECURITY SYSTEM	
	COMPUTER C.O. LEVEL 1	20	1		5			1250			1000	6	20	1		PHONE SYSTEM	
	COMPUTER C.O. LEVEL 1	20	1		7	1080						8	20	1		SPARE	
	COMPUTER C.O. LEVEL 1	20	1		9		1200			1080		10	20	1		COMPUTER C.O. LEVEL 2	
	COMPUTER C.O. LEVEL 1	20	1		11			1200			1080	12	20	1		COMPUTER C.O. LEVEL 2	
	COMPUTER C.O. LEVEL 1	20	1		13	1200			1080			14	20	1		COMPUTER C.O. LEVEL 2	
	COMPUTER ROOM C.O.	20	1		15		1080			720		16	20	1		COMPUTER C.O. LEVEL 2	
	COMPUTER ROOM C.O.	20	1		17			1080			1080	18	20	1		COMPUTER C.O. LEVEL 2	
	COMPUTER ROOM C.O.	20	1		19	1080			1080			20	20	1		COMPUTER C.O. LEVEL 2	
	COMPUTER ROOM C.O.	20	1		21		1080			720		22	20	1		COMPUTER C.O. LEVEL 2	
	SPARE	20	1		23							24	20	1		SPARE	
	SPARE	20	1		25							26	20	1		SPARE	
	SPARE	20	1		27							28	20	1		SPARE	
	SPARE	20	1		29							30	20	1		SPARE	
	SPARE	20	1		31							32	20	1		SPARE	
	SPARE	20	1		33							34	20	1		SPARE	
	SPARE	20	1		35							36	20	1		SPARE	
	SPARE	20	1		37							38	20	1		SPARE	
	SPARE	20	1		39							40	20	1		SPARE	
	SPARE	20	1		41							42	20	1		SPARE	
						4440	4440	3530	2160	3020	3160						
						6600	7460	6690	TOTAL								
						55	62	56	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [X] FLUSH [ ] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 20,750

SHORT CIRCUIT RATING: [X] SERIES - RATED [ ] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: P7 TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	DORM 10 208 C.O.	20	1	12	1	720			720			2	20	1	10	DORM 15 203 C.O.	
	DORM 10 BED C.O.	20	1	12	3		1080			1080		4	20	1	10	DORM 15 BED C.O.	
	DORM 10 BED C.O.	20	1	12	5			1080			1080	6	20	1	10	DORM 15 BED C.O.	
	DORM 10 BED C.O.	20	1	12	7	1080			1080			8	20	1	10	DORM 15 BED C.O.	
	DORM 11 210 C.O.	20	1	12	9		900			900		10	20	1	10	DORM 16 204 C.O.	
	DORM 11 BED C.O.	20	1	12	11			1080			1080	12	20	1	10	DORM 16 BED C.O.	
	DORM 11 BED C.O.	20	1	12	13	1080			1080			14	20	1	10	DORM 16 BED C.O.	
	DORM 11 BED C.O.	20	1	12	15		1080			1080		16	20	1	10	DORM 16 BED C.O.	
	DORM 12 209 C.O.	20	1	12	17			720			900	18	20	1	10	DORM 17 205 C.O.	
	DORM 12 BED C.O.	20	1	12	19	1080			1080			20	20	1	10	DORM 17 BED C.O.	
	DORM 12 BED C.O.	20	1	12	21		1080			1080		22	20	1	10	DORM 17 BED C.O.	
	DORM 12 BED C.O.	20	1	12	23			1080			1080	24	20	1	10	DORM 17 BED C.O.	
	DORM 13 208 C.O.	20	1	10	25	900			900			26	20	1	10	DORM 9 131 C.O.	
	DORM 13 BED C.O.	20	1	10	27		1080			1080		28	20	1	10	DORM 9 BED C.O.	
	DORM 13 BED C.O.	20	1	10	29			1080			1080	30	20	1	10	DORM 9 BED C.O.	
	DORM 13 BED C.O.	20	1	10	31	1080			1080			32	20	1	10	DORM 9 BED C.O.	
	DORM 14 202 C.O.	20	1	10	33		900			540		34	20	1	12	ROOM 213 C.O.	
	DORM 14 BED C.O.	20	1	10	35			1080			1080	36	20	1	12	ELECT. ROOM 212 C.O.	
	DORM 14 BED C.O.	20	1	10	37	1080						38	20	1		SPARE	
	DORM 14 BED C.O.	20	1	10	39		1080					40	20	1		SPARE	
	TOILET 207, 206 C.O.	20	1	10	41			360				42	20	1		SPARE	
						7020	7200	6480	5940	5760	6300						
						12960	12960	12780	TOTAL								
						108	108	107	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 38,700

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: CP1 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 400

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	SPARE	20	1		1				600			2	20	1		COPY MACHINE	
	OFFICE LIGHTING LEVEL 1	20	1		3		1408			600		4	20	1		COPY MACHINE	
	OFFICE LIGHTING LEVEL 1	20	1		5			1152				6	20	1		SPARE	
	OFFICE LIGHTING LEVEL 1	20	1		7	1536			500			8	20	1		ELECTRICAL ROOM C.O.	
	OFFICE LIGHTING LEVEL 1	20	1		9		640			504		10	20	1	10	K4B (E-2)	
	OFFICE LIGHTING LEVEL 1	20	1		11			1152			830	12	20	3	10	K4A (E-1)	8
	OFFICE LIGHTING LEVEL 1	20	1		13	964			830			14	-	-	-	-	
	SPARE	20	1		15					830		16	-	-	-	-	
	OFFICE LIGHTING LEVEL 2	20	1		17			1500			180	18	20	2	12	COMPUTER ROOM FAN COIL	8,4
	OFFICE LIGHTING LEVEL 2	20	1		19	1500			180			20	-	-	-	-	
	OFFICE LIGHTING LEVEL 2	20	1		21		1700					22	-	-	-	SHUNT TRIP	
	OFFICE LIGHTING LEVEL 2	20	1		23			1700			2435	24	40	2		COMPUTER ROOM CONDENSER	8
	OFFICE LIGHTING LEVEL 2	20	1		25	1100			2435			26	-	-	-	-	
	OFFICE LIGHTING LEVEL 2	20	1		27		1500			1135		28	20	2	10	K3B (E5), K3C (E6)	8
	SPARE	20	1		29						1135	30	-	-	-	-	
	SPARE	20	1		31				6600			32	125	3		30KVA UPS	
	TVSS	30	3		33					7460		34	-	-	-	-	
	-	-	-	-	35						6690	36	-	-	-	-	
	-	-	-	-	37				1320			38	20	3	10	K3A (E4)	8
	SPARE	20	1		39					1320		40	-	-	-	-	
	SPARE	20	1		41						1320	42	-	-	-	-	
						5100	5248	5504	12465	11849	12590						
						17565	17097	18094	TOTAL								
						146	142	151	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [ ] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [X] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 52,756

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: UPS2 TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [X] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [X] AMPS 70 BUS AMPS: 100

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	WORK STATION 134 C.O.	20	1	10	1	600			1200			2	20	1	12	DATA 147 TELEPHONE BD.	
	WORK STATION 134 C.O.	20	1	10	3		600			1800		4	20	1	12	DATA RACK	
	WORK STATION 134 C.O.	20	1	10	5			600			1800	6	20	1	12	DATA RACK	
	WORK STATION 134 C.O.	20	1	10	7	600			1800			8	20	1	12	DATA RACK	
	WORK STATION 134 C.O.	20	1	10	9		600			1200		10	20	1	12	ELECT. 212 PHONE CAB.	
	WORK STATION 134 C.O.	20	1	10	11			600				12	20	1		SPARE	
	WORK STATION 201 C.O.	20	1	12	13	600						14	20	1		SPARE	
	WORK STATION 201 C.O.	20	1	12	15		600					16	20	1		SPARE	
	WORK STATION 201 C.O.	20	1	12	17			600				18	20	1		SPARE	
	WORK STATION 201 C.O.	20	1	12	19	600						20	20	1		SPARE	
	WORK STATION 201 C.O.	20	1	12	21		600					22	20	1		SPARE	
	WORK STATION 201 C.O.	20	1	12	23			600				24	20	1		SPARE	
	SPARE	20	1	12	25							26	20	1		SPARE	
	SPARE	20	1		27							28	20	1		SPARE	
	SPARE	20	1		29							30	20	1		SPARE	
	SPARE	20	1		31							32	20	1		SPARE	
	SPARE	20	1		33							34	20	1		SPARE	
	SPARE	20	1		35							36	20	1		SPARE	
	SPARE	20	1		37							38	20	1		SPARE	
	SPARE	20	1		39							40	20	1		SPARE	
	SPARE	20	1		41			1000				42	20	1		SPARE	
						2400	2400	3400	3000	3000	1800						
						5400	5400	5200	TOTAL								
						45	45	43	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [ ] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [X] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 16,000

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

22,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

PANELBOARD SCHEDULE NOTES:
1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYPE CIRCUIT BREAKER.
4. PROVIDE SHUNT-TRIP TYPE CIRCUIT BREAKER WITH 120V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS INDICATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD.

PANEL LEGEND

P5	P8	CP2
P6	DP1	UPS1
P7	CP1	UPS2

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PAROLE VIOLATOR CENTER

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Division of Facilities Construction and Management

DRAWN BY:
CHECKED BY:
OWNER PROJECT NO.:
ENVISION PROJECT NO.: 2011-181.00
ISSUED DATE: 3/19/2012

PANEL SCHEDULES

EP802

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: K1 TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 225

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	K34 (E31,E32) K37 (E35)	20	1	12	1	732			2205			2	30	2	10	K54 (E47)	
	SHUNT-TRIP	-	-	-	3					2205		4	-	-	-	-	
	K35 (E33,E34)	20	1	12	5		1200				360	6	20	1	10	K53 (E44,E46)	
	SHUNT-TRIP	-	-	-	7				960			8	20	1	10	K56 (E43,E45)	
	K38 (E36,E37)	20	1	12	9		1440			2080		10	30	2	10	K63 (E49)	
	SHUNT-TRIP	-	-	-	11						2080	12	-	-	-		
	K38 (E38,E39)	20	1	12	13	1440			360			14	20	1	12	K29 (E21), K62 (E48)	
	SHUNT-TRIP	-	-	-	15					1200		16	20	1	12	K48 (E22)	
	K14 (E9,E11) C.O.	20	1	12	17			360			180	18	20	1	12	K29 (E20)	
	K14 (E13,E16) C.O.	20	1	12	19	360			156			20	20	1	12	K28 (E19)	
	K15 (E10)	20	1	12	21		1176					22	20	1		SPARE	
	K16 (E12)	20	1	12	23			576			360	24	20	1	12	K76 (E54)	
	K49 (E8)	20	2	12	25	1240			390			26	15	3	12	K71 (E52)	
	-	-	-	-	27		1240			390		28	-	-	-	-	
	K24 (E14)	20	2	12	29			1664			390	30	-	-	-	-	
	-	-	-	-	31	1664			1340			32	20	3	12	K73 (E53)	
	K21 (E15,E17)	20	1	12	33		360			1340		34	-	-	-	-	
	K47 (E18)	25	1	10	35			2316			1340	36	-	-	-	-	
	K44 (E41)	20	1	10	37	180			500			38	20	1	12	GAS SHUT-OFF VALVE	
	K45 (E42)	20	1	10	39		360					40	20	1		SPARE	
	KITCHEN C.O.	20	1	10	41			1080				42	20	1		SPARE	
						5616	4576	7196	5911	7215	4710						
						11527	11791	11906	TOTAL								
						96	98	99	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [X] FLUSH [ ] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 35,224

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: EM2 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [X] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 100

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	LEVEL 1 AREA B EM LTS.	20	1	10	1	1037						2	20	1		SPARE	
	EXTERIOR EGRESS LTS.	20	1	10	3		300					4	20	1		SPARE	
	FIRE ALARM PANEL	20	1	8	5			500				6	20	1		SPARE	
	LEVEL 1 OFFICE EM LTS.	20	1	8	7	700						8	20	1		SPARE	
	LEVEL 2 OFFICE EM LTS.	20	1	8	9		800					10	20	1		SPARE	
	ELEVATOR LTS	20	1	8	11			1000				12	20	1		SPARE	
	LCP1	20	1	12	13	500						14	20	1		SPARE	
	LEVEL 1 AREA A FACP	20	1	10	15		500					16	20	1		SPARE	
	SPARE	20	1		17							18	20	1		SPARE	
	SPARE	20	1		19							20	20	1		SPARE	
					21							22					
					23							24					
					25							26					
					27							28					
					29							30					
					31							32					
					33							34					
					35							36					
					37							38					
					39							40					
					41							42					
						2237	1600	1500									
						2237	1600	1500	TOTAL								
						19	13	13	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 5,337

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: EM3 (EXISTING) TYPE: NQOD CIRCUIT BREAKERS: [X] BOLT ON [ ] PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

[X] ENGRAVED NAME TAGS BUS MATERIAL: [ ] ALUM BUS [X] CU BUS GROUND: [X] GROUND BUS [ ] ISOL GND BUS NEUTRAL: [X] 100% [ ] 200% LUGS: [X] MAIN [ ] SUB-FEED [ ] FEED-THROUGH MAIN BREAKER: [ ] AMPS ____ BUS AMPS: 100

BRANCH BREAKERS

NOTES	ITEM	AMP	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMP	POLE	WIRE SIZE	ITEM	NOTES
	EM/NL LEVEL 1	20	1	8	1							2	20	1		SPARE	
	EM/NL LEVEL 1	20	1	8	3							4	20	1		SPARE	
	EM/NL LEVEL 2	20	1	8	5			1600				6	20	1		SPARE	
	EXTERIOR LIGHTING	20	1	8	7	900						8	20	1		SPARE	
	LEVEL 1 AREA A NAC	20	1	12	9		500					10	20	1		SPARE	
	LCP2	20	1	12	11			500				12	20	1		SPARE	
	SPARE	20	1		13							14	20	1		SPARE	
	SPARE	20	1		15							16	20	1		SPARE	
	SPARE	20	1		17							18	20	1		SPARE	
	SPARE	20	1		19							20	20	1		SPARE	
					21							22					
					23							24					
					25							26					
					27							28					
					29							30					
					31							32					
					33							34					
					35							36					
					37							38					
					39							40					
					41							42					
						900	500	2100									
						900	500	2100	TOTAL								
						8	4	18	AMPS / PHASE								

FRONT: [X] STANDARD [ ] HINGED [ ] DOOR-IN-DOOR

MOUNTING: [ ] FLUSH [X] SURFACE [ ] SURFACE W/ SKIRT ABOVE [ ] SURFACE W/ SKIRT BELOW

TVSS: [X] NONE [ ] CATEGORY "C" [ ] CATEGORY "B" [ ] CATEGORY "A"

NEMA RATING: [X] NEMA 1 [ ] NEMA 3R [ ] NEMA 4X [ ] NEMA 12 [ ] STAINLESS STEEL

TOTAL CONNECTED LOAD: 3,500

SHORT CIRCUIT RATING: [ ] SERIES - RATED [X] FULLY - RATED

65,000 AMPS RMS SYM

REFER TO ONE-LINE DIAGRAM FOR FEEDER , CONDUIT AND CONDUCTOR SIZES

PANELBOARD SCHEDULE NOTES:
1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYPE CIRCUIT BREAKER.
4. PROVIDE SHUNT-TRIP TYPE CIRCUIT BREAKER WITH 120V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS INDICATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD.

PANEL LEGEND

		K1
		EM2
		EM3

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PROFESSIONAL ENGINEER DAVID F. WESTON No.394397 3/19/12 STATE OF UTAH

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:
CHECKED BY:
OWNER PROJECT NO.:
ENVISION PROJECT NO.: 2011-181.00
ISSUED DATE: 3/19/2012

PANEL SCHEDULES

EP803

KEYED NOTES: (#)

1. COORDINATE ACCESS CONTROL ROUGH-IN WITH DOOR HARDWARE.

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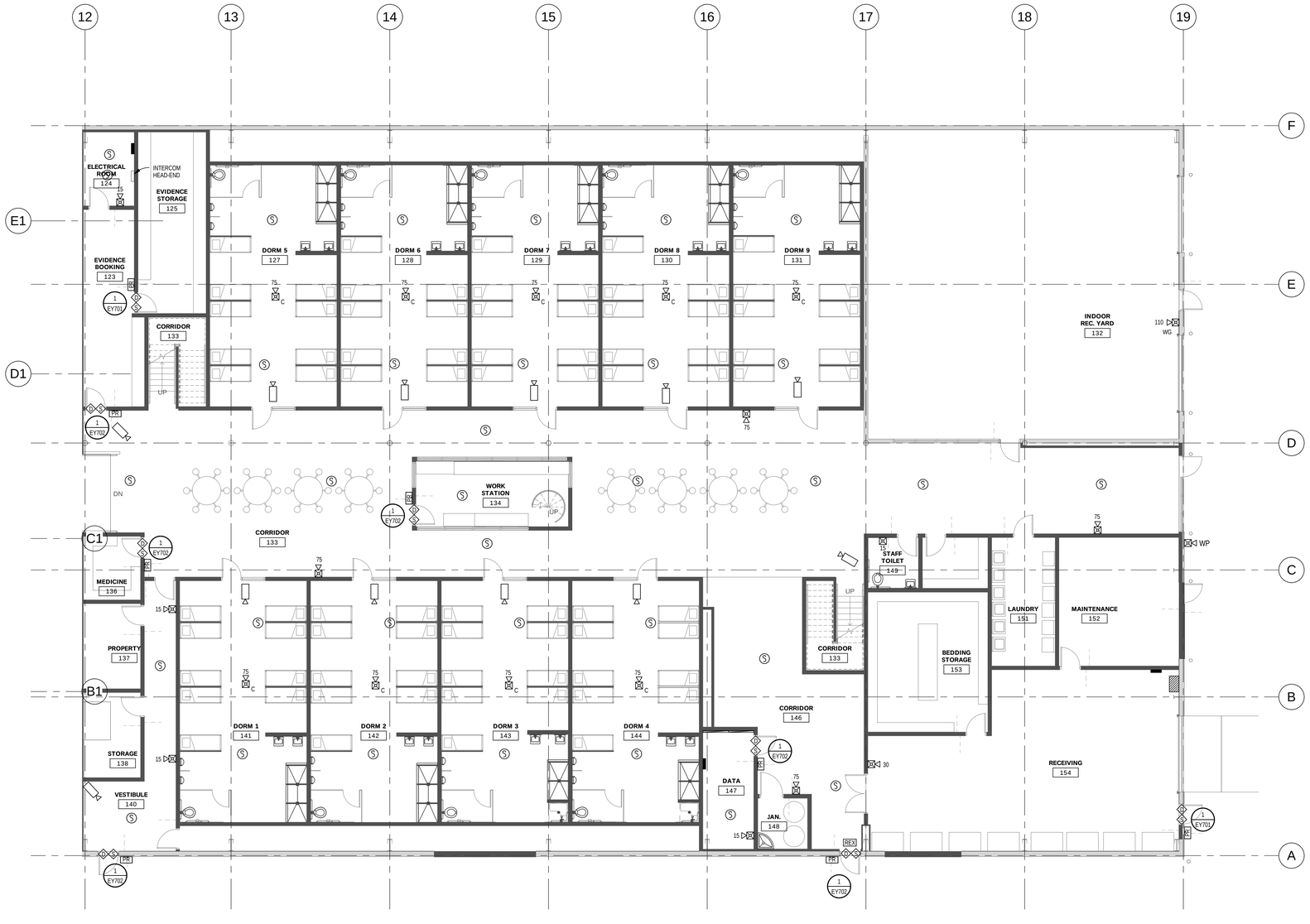

1 EY101 LEVEL 1 AUXILIARY PLAN - AREA "A"
1/8" = 1'-0"

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

DRAWN BY:	Author
CHECKED BY:	Checker
OWNER PROJECT NO.:	
ENVISION PROJECT NO.:	2011-181.00
ISSUED DATE:	3/19/2012

AUXILIARY PLAN - LEVEL 1 AREA "A"

EY101

GSBS ARCHITECTS

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REVISIONS:

1	2012-2-10	Duct Detectors

KEYED NOTES: #

1. .

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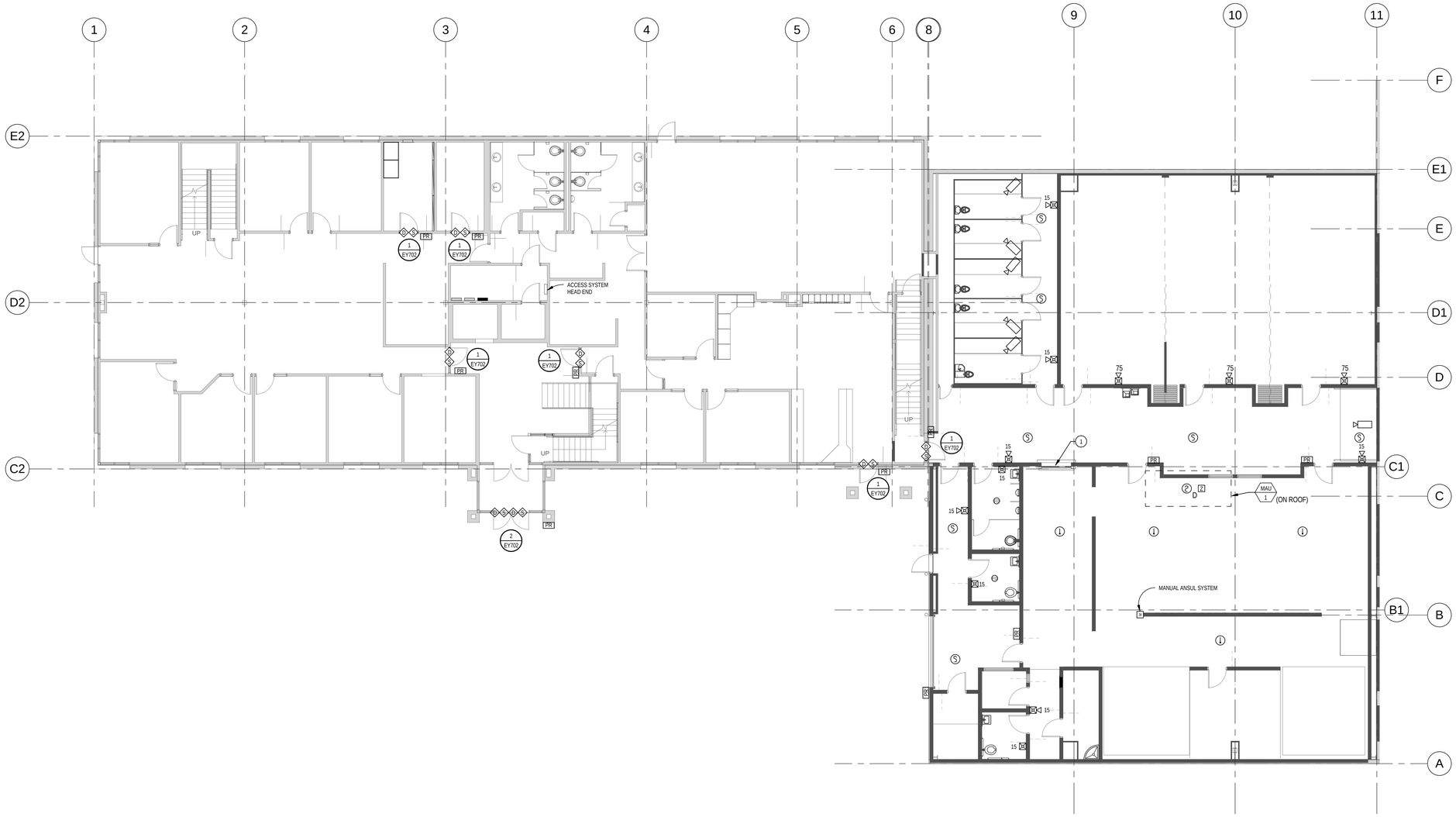

1 EY102 LEVEL 1 AUXILIARY PLAN - AREA "B"
1/8" = 1'-0"

PROFESSIONAL ENGINEER DAVID P. WHITTON No. 324397 3/19/12 STATE OF UTAH

PAROLE VIOLATOR CENTER

1747 South 900 West
Salt Lake City, Utah

Division of Facilities Construction and Management

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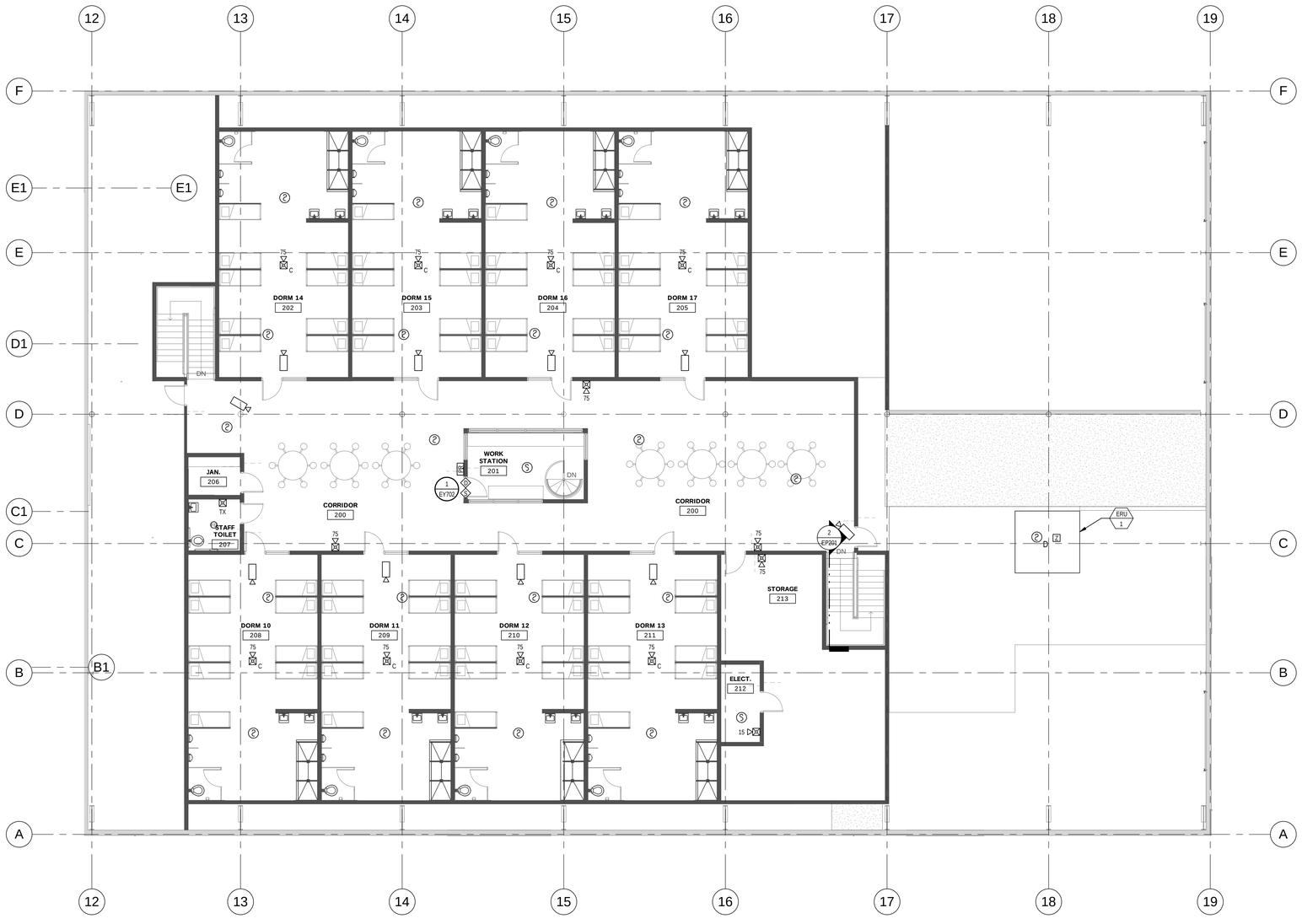
ENVISION PROJECT NO.:	2011-181.00
ISSUED DATE:	3/19/2012

AUXILIARY PLAN - LEVEL 1 AREA "B"

EY102



1 EY103 LEVEL 2 AUXILIARY PLAN - AREA "A"
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
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No. 264397
3/19/12
STATE OF UTAH

PAROLE VIOLATOR CENTER

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Salt Lake City, Utah

Division of Facilities Construction and Management

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ENVISION PROJECT NO.:	2011-181.00
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AUXILIARY PLAN - LEVEL 2
AREA "A"

EY103

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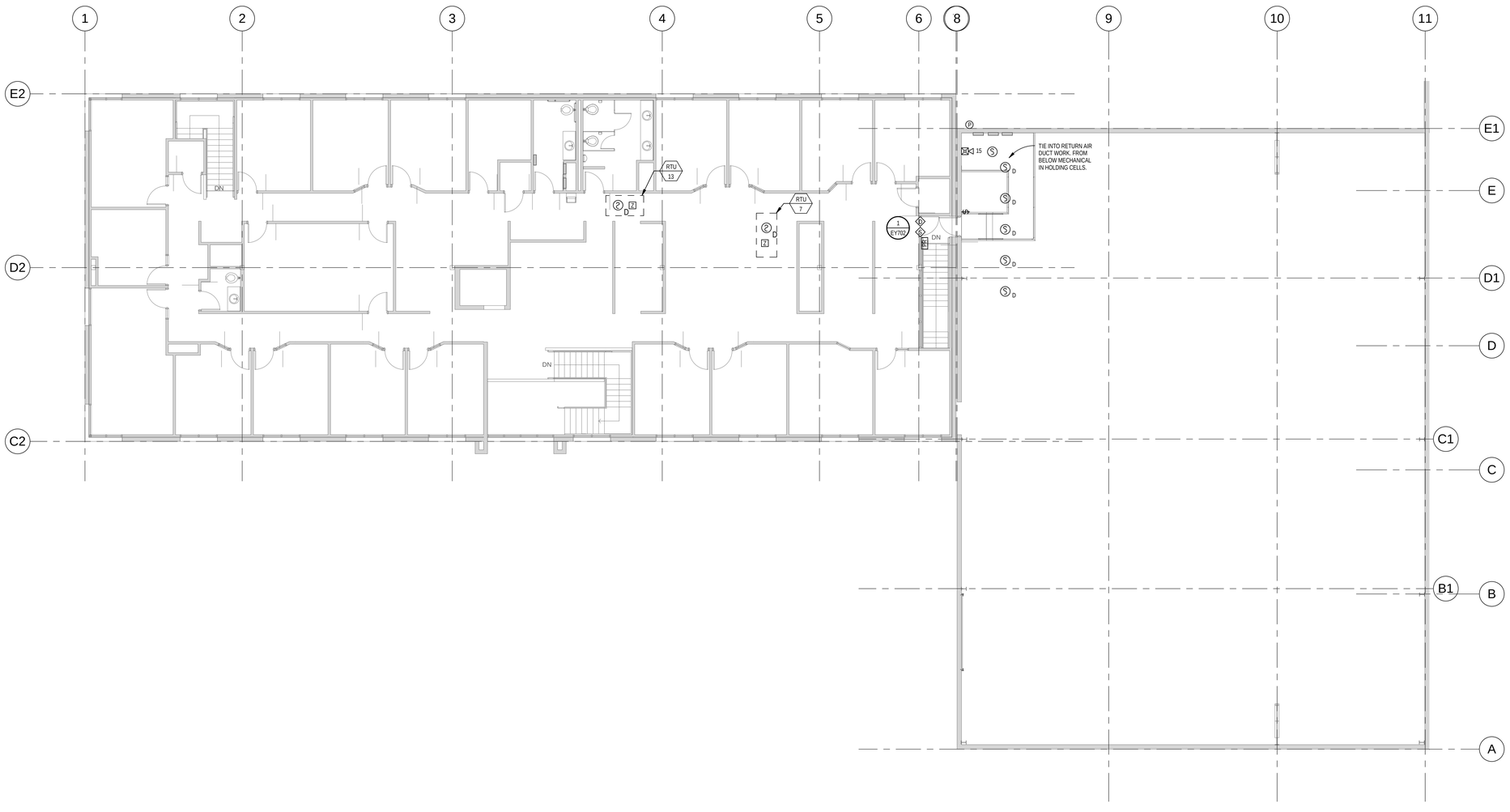

1 EY104 LEVEL 2 AUXILIARY PLAN - AREA "B"
1/8" = 1'-0"

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AUXILIARY PLAN - LEVEL 2 AREA "B"

EY104

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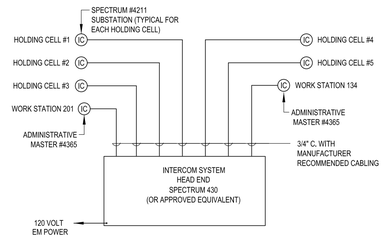
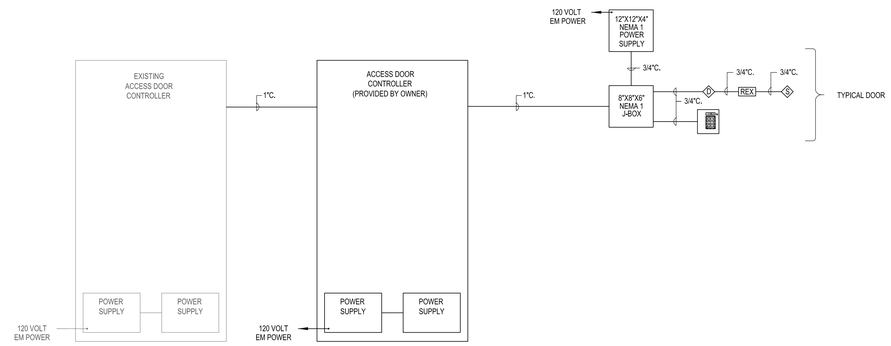


3 INTERCOM SYSTEM RISER DIAGRAM
SCALE: NONE

INTERCOM SYSTEM NOTES:

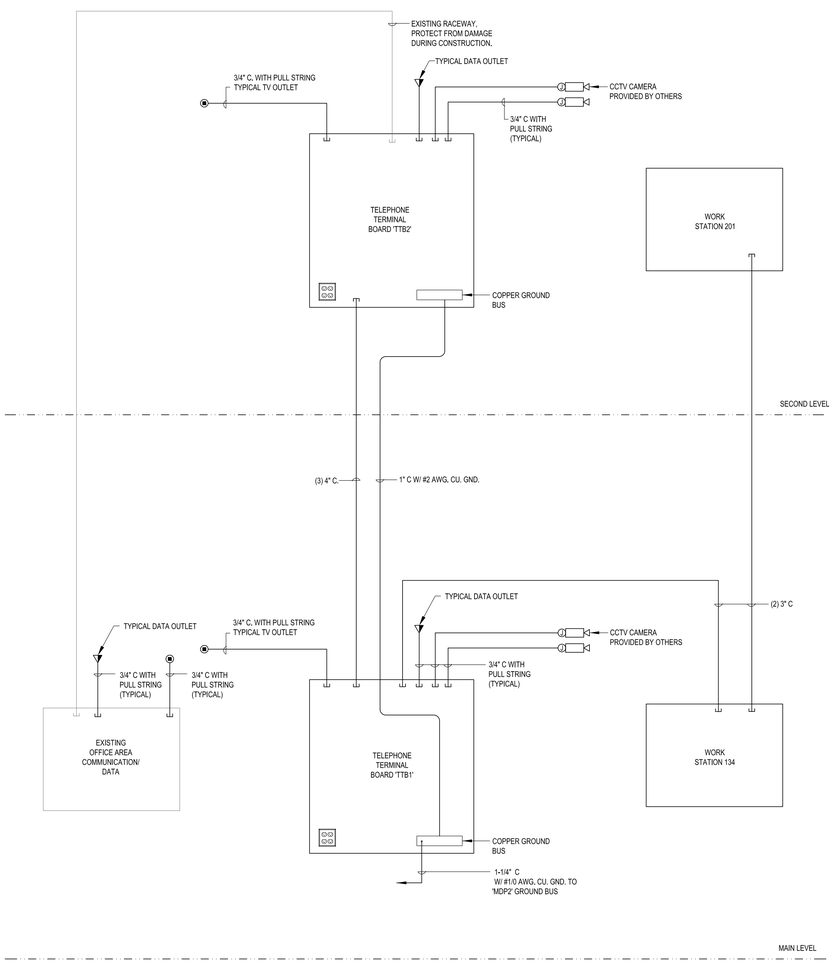
1. PROVIDE COMPLETE INTERCOM SYSTEM AS NECESSARY TO PROVIDE 2-WAY COMMUNICATION BETWEEN THE HOLDING CELLS AND WORK STATION 134.
2. CONFIRM ALL WIRING REQUIREMENTS WITH INTERCOM SYSTEM SUPPLIER AND PROVIDE IN ACCORDANCE THEREWITH.
3. WIRING SHALL BE CONTINUOUS FROM ONE EACH INTERCOM DEVICE BACK TO THE HEAD-END EQUIPMENT. NO SPLICING IS ALLOWED.
4. ALL INTERCOM CABLING SHALL BE RUN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4". CONTRACTOR SHALL SPRAY PAINT ALL JUNCTION BOXES ASSOCIATED WITH THE INTERCOM SYSTEM "NEON BLUE".
5. PROVIDE SYSTEM BY JERON ELECTRONIC SYSTEMS INC. P/N SPECTRUM 430 DIGITAL DUPLEX INTERCOM SYSTEM (OR APPROVED EQUIVALENT).



1 CARD ACCESS SYSTEM RISER DIAGRAM
SCALE: NONE

CARD ACCESS SYSTEM NOTES:

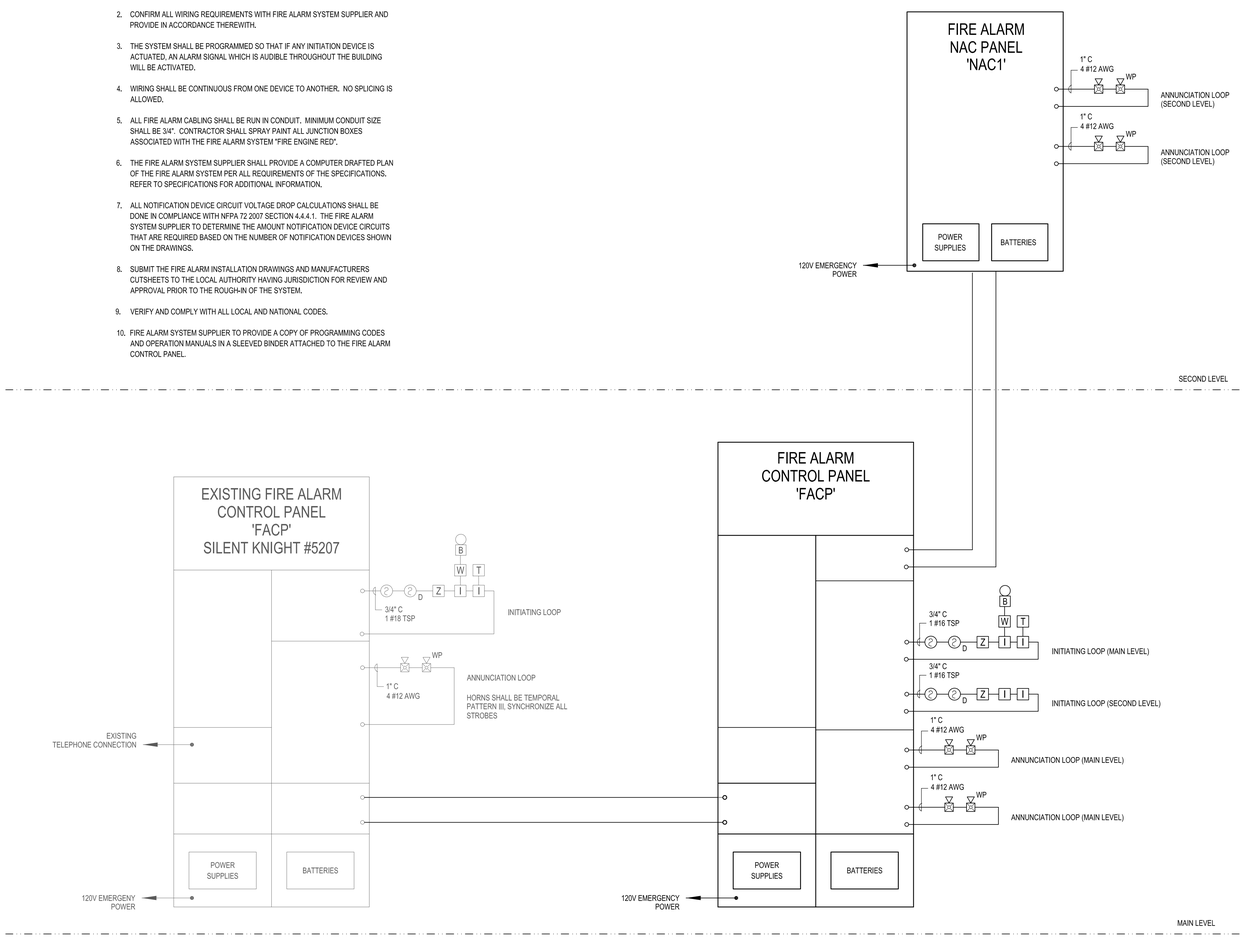
1. THE CONTRACTOR SHALL PROVIDE A COMPETE RACEWAY SYSTEM FOR THIS SYSTEM AS SHOWN IN THE RISER DIAGRAM. THE CONTRACTOR SHALL EXTEND A CONDUIT FROM EACH DOOR BACK TO THE DOOR CONTROLLERS WHICH WILL BE LOCATED ON THE CORRESPONDING FLOOR. COORDINATE THE CONDUIT ROUGHIN WITH THE ARCHITECT/OWNER.
2. PROVIDE THE NUMBER OF ACCESS DOOR CONTROLLERS NECESSARY TO HANDLE ALL DOORS REQUIRING CARD ACCESS, WITH SPARE CAPACITY FOR 2 ADDITIONAL DOORS. THE SYSTEM SHALL HAVE THE ABILITY TO BE EXPANDED IN THE FUTURE TO ACCOMMODATE MORE CONTROL POINTS.
3. THE POWER SUPPLY FOR THE DOOR LATCHES SHALL BE PROVIDED BY THE DOOR HARDWARE SUPPLIER/OWNER REQUIRING 120 VOLT CONNECTION BY THE DIVISION 26 CONTRACTOR (IF POWER SUPPLIES ARE REQUIRED BASED ON THE DOOR HARDWARE THAT IS REQUIRED).
4. THE DOOR CONTACT SWITCH WILL BE FURNISHED BY THE DOOR HARDWARE INSTALLER AND WILL BE LOCATED IN THE DOOR JAMB. THE CARD ACCESS SYSTEM INSTALLER/OWNER SHALL MAKE ALL WIRING CONNECTIONS.
5. THE REQUEST FOR EXIST DEVICE WILL BE LOCATED ABOVE THE DOOR WHICH IS SHOWN ON THE RISER DIAGRAM AND ROUGHIN DOOR DETAIL. THE CARD ACCESS SYSTEM INSTALLER/OWNER SHALL MAKE ALL WIRING CONNECTIONS TO THESE DEVICES.
6. THE 8"X8"X6" NEMA 1 JUNCTION BOX LOCATED AT EACH DOOR SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR.
7. THE ACCESS DOOR INSTALLER/OWNER SHALL COORDINATE ALL WORK WITH THE DOOR HARDWARE INSTALLER.
8. ALL CARD ACCESS SYSTEM WIRING SHALL RUN IN CONDUIT BACK TO THE DOOR CONTROLLERS ON THEIR PERSPECTIVE LEVEL.
9. REFER TO THE DRAWINGS FOR THAT ACTUAL NUMBER OF CARD ACCESS DEVICES AND DOOR CONTROLLERS.



5 COMMUNICATION/DATA SYSTEM RACEWAY DIAGRAM
SCALE: NONE

FIRE ALARM SYSTEM NOTES:

1. PROVIDE NEW ADDRESSABLE FIRE ALARM SYSTEM AND TIE TO THE EXISTING SYSTEM THAT IS ALREADY IN PLACE.
2. CONFIRM ALL WIRING REQUIREMENTS WITH FIRE ALARM SYSTEM SUPPLIER AND PROVIDE IN ACCORDANCE THEREWITH.
3. THE SYSTEM SHALL BE PROGRAMMED SO THAT IF ANY INITIATION DEVICE IS ACTUATED, AN ALARM SIGNAL WHICH IS AUDIBLE THROUGHOUT THE BUILDING WILL BE ACTIVATED.
4. WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO ANOTHER. NO SPLICING IS ALLOWED.
5. ALL FIRE ALARM CABLING SHALL BE RUN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4". CONTRACTOR SHALL SPRAY PAINT ALL JUNCTION BOXES ASSOCIATED WITH THE FIRE ALARM SYSTEM "FIRE ENGINE RED".
6. THE FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE A COMPUTER DRAFTED PLAN OF THE FIRE ALARM SYSTEM PER ALL REQUIREMENTS OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. ALL NOTIFICATION DEVICE CIRCUIT VOLTAGE DROP CALCULATIONS SHALL BE DONE IN COMPLIANCE WITH NFPA 72 2007 SECTION 4.4.4.1. THE FIRE ALARM SYSTEM SUPPLIER TO DETERMINE THE AMOUNT NOTIFICATION DEVICE CIRCUITS THAT ARE REQUIRED BASED ON THE NUMBER OF NOTIFICATION DEVICES SHOWN ON THE DRAWINGS.
8. SUBMIT THE FIRE ALARM INSTALLATION DRAWINGS AND MANUFACTURERS CUTSHEETS TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO THE ROUGH-IN OF THE SYSTEM.
9. VERIFY AND COMPLY WITH ALL LOCAL AND NATIONAL CODES.
10. FIRE ALARM SYSTEM SUPPLIER TO PROVIDE A COPY OF PROGRAMMING CODES AND OPERATION MANUALS IN A SLEEVED BINDER ATTACHED TO THE FIRE ALARM CONTROL PANEL.



4 FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NONE

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AUXILIARY SYSTEMS RISER DIAGRAMS

EY701

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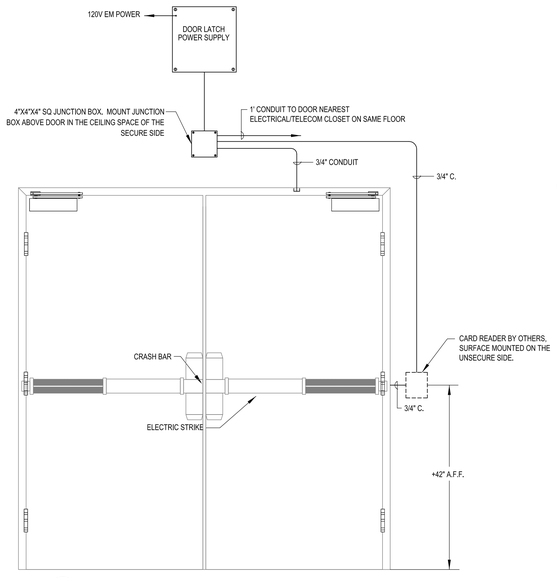
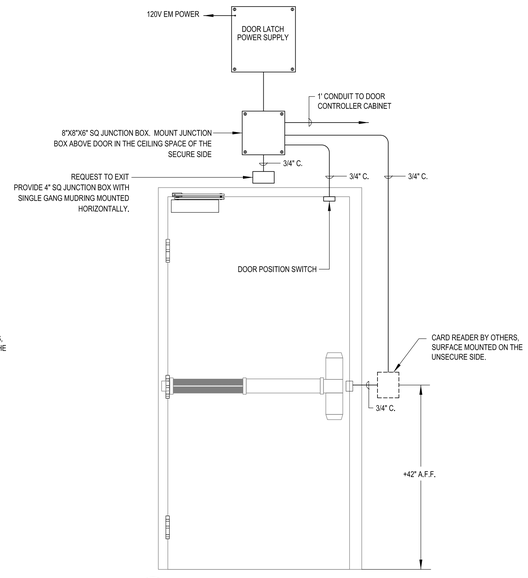
DOOR ROUGH-IN NOTES:

COORDINATE ALL ROUGH-IN REQUIREMENTS WITH DOOR HARDWARE SUPPLIER. THE DOOR ROUGH-IN INFORMATION SHOWN ON THESE DRAWINGS ARE SCHEMATIC IN NATURE AND CANNOT ACCOUNT FOR ALL SPECIFIC VENDOR REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR A RACEWAY SYSTEM TO LOCAL ELECTRICAL CLOSET. OWNER TO PROVIDE ACCESS CONTROL SYSTEM.



2 ACCESS CONTROL DOUBLE DOORS ROUGH-IN DETAIL
SCALE: NONE



1 ACCESS CONTROL SINGLE DOOR ROUGH-IN DETAIL
SCALE: NONE

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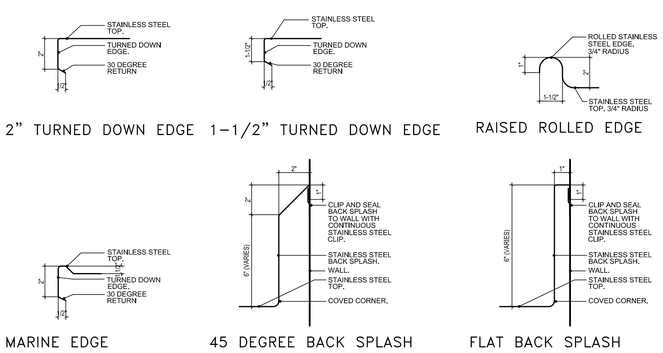
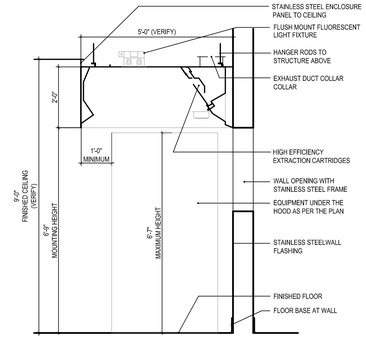
AUXILIARY SYSTEMS RISER DIAGRAMS

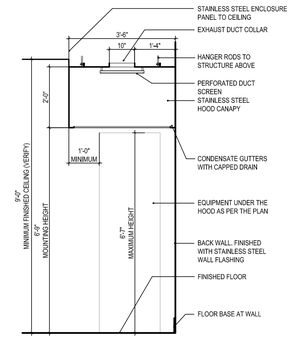
EY702



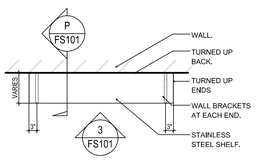
TYPICAL EDGE DETAILS
SECTION DETAIL
SCALE: 1" = 1'-0"
Q / FS101



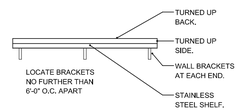
EXHAUST HOOD
SECTION DETAIL
SCALE: 1/2" = 1'-0"
A / FS101



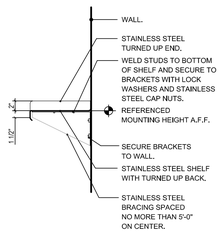
VENT HOOD
SECTION DETAIL
SCALE: 1/2" = 1'-0"
B / FS101



TYPICAL WALL SHELF
PLAN DETAIL
SCALE: 1/2" = 1'-0"
2 / FS101



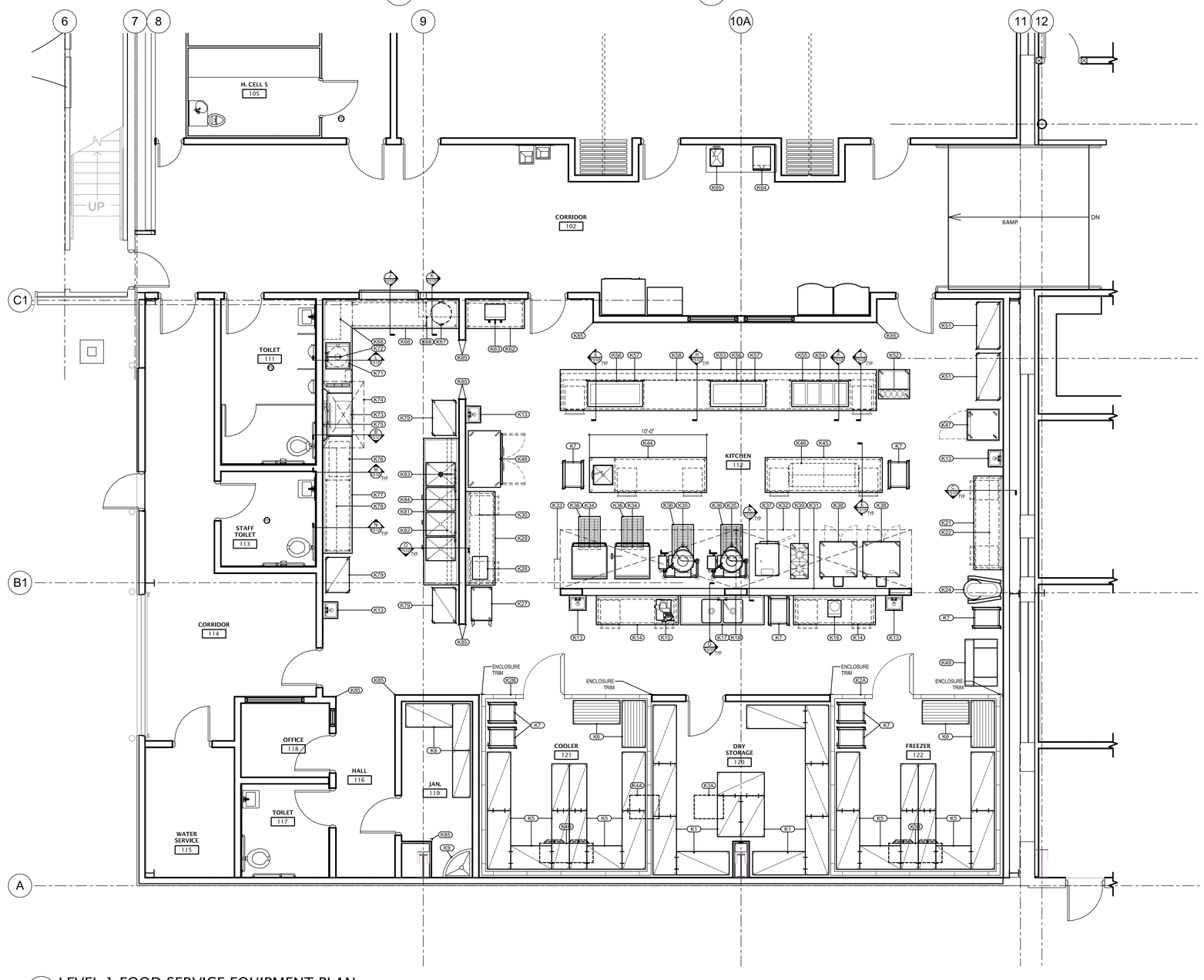
TYPICAL WALL SHELF
ELEVATION DETAIL
SCALE: 1/2" = 1'-0"
3 / FS101



TYPICAL WALL SHELF
SECTION DETAIL
SCALE: 1" = 1'-0"
P / FS101

SCHEDULE: FOOD SERVICE EQUIPMENT: MAIN KITCHEN

ITEM	QTY	UNIT	DESCRIPTION
#K-1	1	LOT	DRY STORAGE SHELVING
#K-2A	1	LOT	WALK-IN FREEZER BOX
#K-2B	1	LOT	WALK-IN COOLER BOX
#K-3A	1	SYS	WALK-IN FREEZER REFRIGERATION: CONDENSER
#K-3B	1	SYS	WALK-IN FREEZER REFRIGERATION: BLOWER COILS
#K-4A	1	SYS	WALK-IN COOLER REFRIGERATION: CONDENSER
#K-4B	1	SYS	WALK-IN COOLER REFRIGERATION: BLOWER COILS
#K-5	1	LOT	WALK-IN SHELVING
#K-6	1	LOT	WALK-IN DUNNAGE RACK
#K-7	8	EACH	MOBILE SPEED RACK
#K-8	1	LOT	JANITOR SHELVING
#K-9	1	EACH	JANITOR SINK: PROVIDED BY PLUMBING SECTION
#K-10	-	-	SPARE NUMBER
#K-11	-	-	SPARE NUMBER
#K-12	-	-	SPARE NUMBER
#K-13	5	EACH	WALL MOUNT HAND SINK
#K-14	2	EACH	STAINLESS STEEL WORK TABLE
#K-15	1	EACH	SLICER
#K-16	1	EACH	FOOD PROCESSER
#K-17	1	EACH	STAINLESS STEEL TWO COMPARTMENT PREP SINK
#K-18	1	LOT	STAINLESS STEEL WALL FLASHING
#K-19	-	-	SPARE NUMBER
#K-20	-	-	SPARE NUMBER
#K-21	1	EACH	STAINLESS STEEL WORK TABLE
#K-22	1	EACH	STAINLESS STEEL WALL SHELF
#K-23	-	-	SPARE NUMBER
#K-24	1	EACH	60 QUART MIXER
#K-25	-	-	SPARE NUMBER
#K-26	-	-	SPARE NUMBER
#K-27	1	EACH	MOBILE CART
#K-28	1	EACH	BULK MILK DISPENSER: PROVIDED BY VENDER
#K-29	1	EACH	STAINLESS STEEL WORK TABLE
#K-30	1	EACH	STAINLESS STEEL WALL SHELF
#K-31	1	LOT	STAINLESS STEEL WALL FLASHING
#K-32	1	EACH	STAINLESS STEEL EXHAUST HOOD: TYPE I
#K-33	1	SYS	FIRE PROTECTION SYSTEM
#K-34	2	EACH	30 GALLON TILT SKILLET: GAS
#K-35	2	EACH	25 GALLON TILT KETTLE: GAS
#K-36	4	EACH	STAINLESS STEEL FLOOR TROUGH
#K-37	1	EACH	STEAMER: GAS
#K-38	2	EACH	STACKED CONVECTION OVEN: GAS
#K-39	1	EACH	TWO BURNER RANGE: WITH CABINET BASE, GAS
#K-40	-	-	SPARE NUMBER
#K-41	-	-	SPARE NUMBER
#K-42	-	-	SPARE NUMBER
#K-43	-	-	SPARE NUMBER
#K-44	1	EACH	STAINLESS STEEL ISLAND WORK TABLE: WITH UTILITY SINK
#K-45	1	EACH	STAINLESS STEEL ISLAND WORK TABLE
#K-46	1	EACH	STAINLESS STEEL CEILING MOUNT UTENSIL RACK
#K-47	1	EACH	HOT FOOD WARMING CABINET: MOBILE
#K-48	1	EACH	REACH-IN REFRIGERATOR: DOUBLE SECTION
#K-49	1	EACH	ICE MAKER AND BIN
#K-50	-	-	SPARE NUMBER
#K-51	2	EACH	MOBILE SHELVING
#K-52	1	EACH	TRAY AND UTENSIL CART: MOBILE
#K-53	1	EACH	STAINLESS STEEL SERVING COUNTER
#K-54	1	EACH	DROP-IN HOT FOOD WARMER: FOUR PAN
#K-55	1	EACH	STAINLESS STEEL BREATH PROTECTOR
#K-56	2	EACH	DROP-IN REFRIGERATED COLD PAN: FOUR PAN
#K-57	2	EACH	STAINLESS STEEL BREATH PROTECTOR
#K-58	-	-	SPARE NUMBER
#K-59	-	-	SPARE NUMBER
#K-60	-	-	SPARE NUMBER
#K-61	-	-	SPARE NUMBER
#K-62	1	EACH	STAINLESS STEEL BEVERAGE TABLE
#K-63	1	EACH	COFFEE BREWER: PROVIDED BY VENDER
#K-64	1	EACH	ICE AND WATER DISPENSER
#K-65	1	EACH	STAINLESS STEEL DUMP SINK
#K-66	1	EACH	STAINLESS STEEL DIRTY DISH TABLE
#K-67	1	LOT	TRASH CONTAINER: PROVIDED BY OWNER
#K-68	2	EACH	STAINLESS STEEL WALL MOUNT DISH RACK SHELF
#K-69	-	-	SPARE NUMBER
#K-70	-	-	SPARE NUMBER
#K-71	1	EACH	WASTE COLLECTOR
#K-72	1	EACH	PRE-RINSE SPRAY FAUCET
#K-73	1	EACH	CONVEYOR DISHWASHER: GAS
#K-74	1	EACH	STAINLESS STEEL VENT HOOD: TYPE II
#K-75	1	EACH	STAINLESS STEEL WALL FLASHING
#K-76	1	EACH	BOOSTER HEATER: GAS
#K-77	1	EACH	STAINLESS STEEL CLEAN DISH TABLE
#K-78	1	EACH	STAINLESS STEEL WALL SHELF
#K-79	3	EACH	MOBILE RACK SHELF
#K-80	-	-	SPARE NUMBER
#K-81	1	EACH	STAINLESS STEEL FOUR COMPARTMENT SINK
#K-82	1	EACH	STAINLESS STEEL WALL MOUNT POT RACK
#K-83	1	EACH	PRE-RINSE SPRAY FAUCET
#K-84	1	EACH	STAINLESS STEEL WALL FLASHING
#K-85	1	LOT	STAINLESS STEEL CORNER GUARDS



1 / FS101 LEVEL 1 FOOD SERVICE EQUIPMENT PLAN
1/4 = 1'-0"
4' 2' 0' 4' 8'

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STATE OF UTAH
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133431
LICENSED ARCHITECT

PAROLE VIOLATOR CENTER
CONSTRUCTION DOCUMENTS
1747 South 900 West
Salt Lake City, Utah

UDOC

DRAWN BY:	RCJ
CHECKED BY:	BJ
OWNER PROJECT NO.:	
GSBS PROJECT NO.:	2010.080.00
ISSUED DATE:	01/12/2012

LEVEL 1 FOOD SERVICE EQUIPMENT PLAN

FS101

BUILDING REQUIREMENTS
GENERAL NOTES:

A. See Plumbing Rough-In Plan for requirements for drains, water, gas and refrigeration lines.

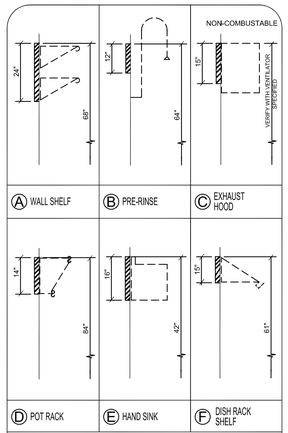
B. See Electrical Rough-In Plan for requirements for outlets, junction boxes, loads, voltages, and phases.

C. See Mechanical and Electrical Plans for requirements of ventilation systems.

D. Verify blocking requirements with suppliers for those items not provided by Kitchen Equipment Contractor.

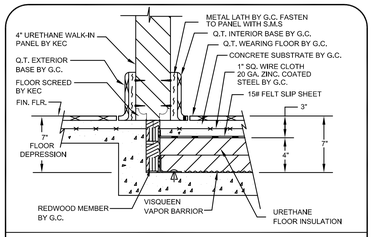
E. All dimensions are to be field verified for compliance prior to fabrication/installation. All Dimensions shown are critical and are from finished wall.

F. See Plumbing, Electrical and Mechanical Plans for further information and requirements.

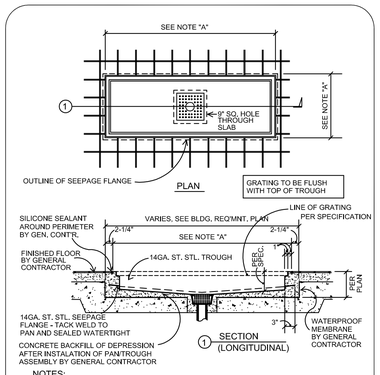


WALL BACKING DETAIL

NOTES: 1. ALL DIMENSIONS ARE TO FINISHED FLOOR.
2. ALL WALLBACKING TO BE 14GA STEEL PLATE SECURELY ATTACHED TO STUDS.



COLD STORAGE ROOM AT EXTERIOR WALL - 7" DEPRESSION



NOTES:

A. GRATING TO BE PROVIDED AS PER ITEMIZED SPECIFICATION IN EQUAL AND INTERCHANGEABLE SECTIONS, SECTIONS NOT TO EXCEED 24" (600) IN WIDTH & 48" (1200) IN LENGTH.

B. INSULATE FLOOR PAN TO PREVENT CONDENSATION.

C. PAN/TROUGH AND GRATE SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR, INSTALLED BY GENERAL CONTRACTOR

FLOOR TROUGH AND GRATING ASSEMBLY

BUILDING REQUIREMENTS NOTE SCHEDULE

A1 G.C. TO PROVIDE BLOCKING IN WALL FOR WALL SHELF. SEE DETAIL 'A'

A2 G.C. TO PROVIDE BLOCKING IN WALL FOR PRE-RINSE FAUCET. SEE DETAIL 'B'

A3 G.C. TO PROVIDE BLOCKING IN WALL FOR EXHAUST HOOD. SEE DETAIL 'C'

A4 G.C. TO PROVIDE BLOCKING IN WALL FOR UTENSIL RACK & POT RACKWALL SHELF. SEE DETAIL 'D'

A5 G.C. TO PROVIDE BLOCKING IN WALL FOR HAND SINK. SEE DETAIL 'E'

A6 G.C. TO PROVIDE BLOCKING IN WALL FOR DISH RACK SHELF. SEE DETAIL 'F'

A7 G.C. TO PROVIDE INSULATED FLOOR SLAB SYSTEM AT WALK-IN FREEZER. SEE DETAILS AND MANUFACTURER'S SHOP DRAWINGS

A8 WALK-IN FREEZER/COOLER BOX SET ON SUB FLOOR. G.C. TO PROVIDE FLOOR TILE AND COVE BASE TO EXTEND INTO BOXES AFTER INSTALLATION.

A9 G.C. TO PROVIDE FLOOR AND WALL CHASES IN BUILDING FOR REFRIGERATION LINES, FROM WALK-IN BOXES TO REMOTE REFRIGERATION UNIT ON ROOF ABOVE. VERIFY LOCATION AND SIZE WITH REFRIGERATION INSTALLER. G.C. TO FILL IN CHASE OPENINGS AFTER REFRIGERATION LINES ARE INSTALLED.

A10 REMOTE REFRIGERATION CONDENSER BY KEC. VERIFY LOCATION ON ROOF WITH ARCHITECTURAL PLANS.

A11 REFRIGERATION LINE RUNS FROM BLOWER COILS TO REMOTE CONDENSER ON ROOF. CONNECTION BY KEC. RUN ABOVE KITCHEN CEILING TO ROOF CHASE AT CONDENSERS. PROVIDE SUPPORT AS REQUIRED. VERIFY LOCATION AND ROUTE.

A12 REFRIGERATION LINE CONNECTION TO BLOWER COIL BY KEC.

A13 REFRIGERATION LINE CONNECTION TO REMOTE CONDENSER UNIT ON ROOF ABOVE, BY KEC.

A14 FLOOR TROUGH DRAIN WITH REMOVEABLE GRATE TOP. SEE DETAIL THIS SHEET AND PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.

A15 ITEM #K-32 EXHAUST HOOD, WALL CANOPY, BOX STYLE, TYPE II, (2) SECTION EACH. KEC TO MOUNT FROM STRUCTURE ABOVE AND TO BACK WALL BLOCKING. SEE HOOD SECTION DETAIL.

A16 MECHANICAL CONTRACTOR TO CONNECT EXHAUST SYSTEM TO EXHAUST DUCT COLLAR, (4) EACH REQUIRED AT 1,125 CFM EACH, FOR A TOTAL EXHAUST OF 4,500 CFM AT 0.28" W.C. STATIC PRESSURE AT 1,500 DUCT VELOCITY.

A17 MAKE-UP AIR TOTALING 80% OF THE EXHAUSTED AIR. OR 3,600 CFM IS TO BE INTEGRATED WITH EXHAUST SYSTEM AND INTRODUCED TO THE SPACE FROM THE MECHANICAL SYSTEM AND INTEGRATED WITH EXHAUST SYSTEM.

A18 G.C. TO PROVIDE NON COMBUSTABLE WALL ASSEMBLY AT FULL HEIGHT WALL BEHIND EXHAUST HOOD AND AT CEILING ABOVE EXHAUST HOOD WITHIN 18" OF HOOD.

A19 G.C. TO PROVIDE NON COMBUSTABLE WALL ASSEMBLY AT LOW WALL BEHIND EXHAUST HOOD AND AT CEILING ABOVE EXHAUST HOOD WITHIN 18" OF HOOD.

A20 ITEM #K-74, VAPOR AND HEAT EXHAUST VENT HOOD, WALL CANOPY, BOX STYLE, TYPE B, ONE SECTION. KEC TO MOUNT FROM STRUCTURE ABOVE AND TO BACK WALL.

A21 MECHANICAL CONTRACTOR TO CONNECT VENT EXHAUST SYSTEM TO EXHAUST DUCT COLLAR, (1) EACH REQUIRED AT 600 CFM EACH, FOR A TOTAL EXHAUST OF 600 CFM AT 0.12" W.C. STATIC PRESSURE AT 1,500 DUCT VELOCITY.

A22 MECHANICAL SYSTEM TO PROVIDE MAKE-UP AIR TO AREA BY VENT HOOD AT 480 CFM, OR 80% OF EXHAUSTED AIR.

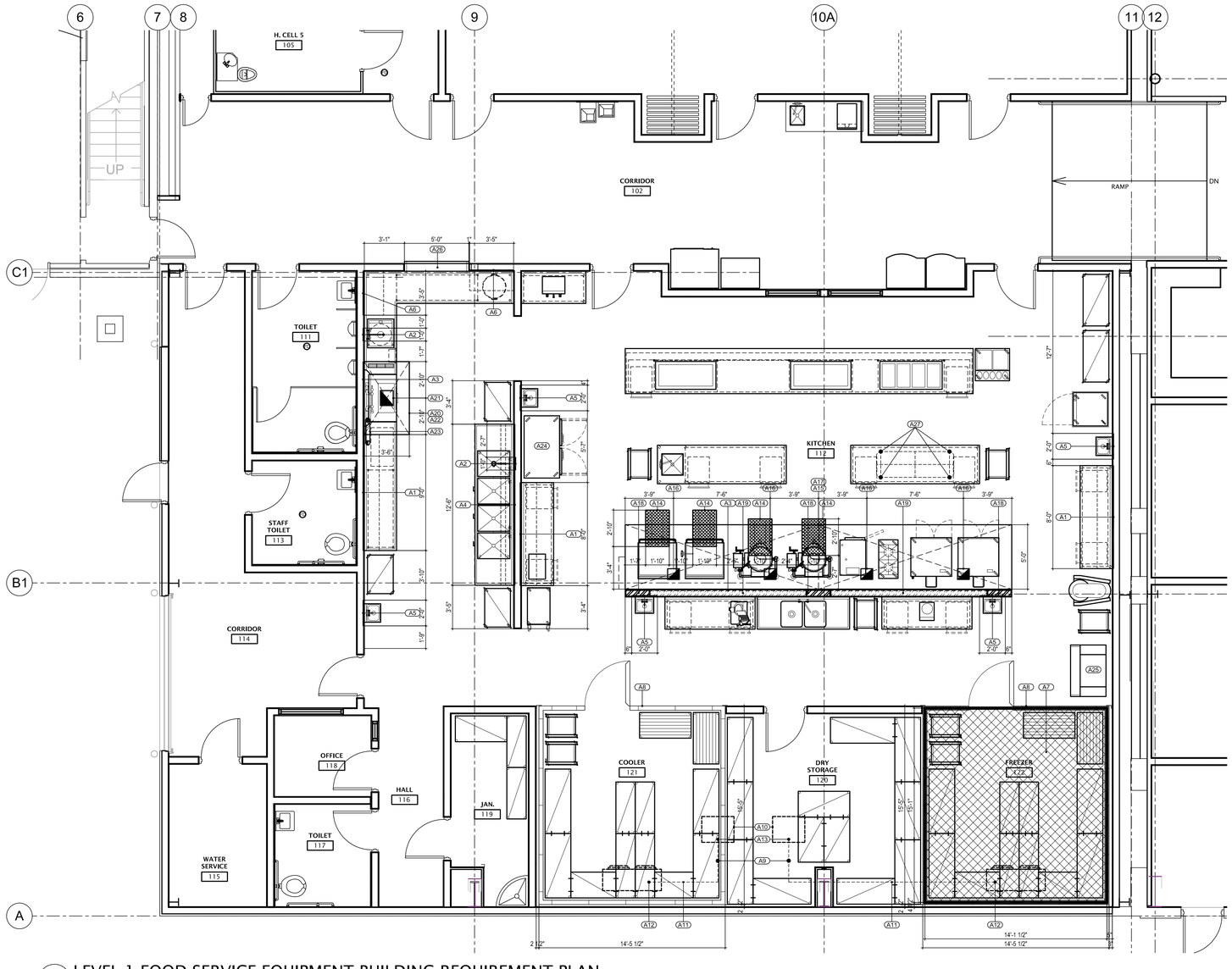
A23 MECHANICAL CONTRACTOR TO RUN VENT FROM BOOSTER HEATER TO DISCHARGE IN VENT HOOD. ITEM #K-74, AS PER CODE REQUIREMENTS.

A24 MECHANICAL SYSTEM TO PROVIDE VENTILATION AT DOUBLE REFRIGERATOR TO EXHAUST 5.0 MBTU PER HOUR.

A25 MECHANICAL SYSTEM TO PROVIDE VENTILATION AT ICE MAKER TO EXHAUST 13.9 MBTU PER HOUR.

A26 WALL OPENING FOR DISH TRAY DROP-OFF WINDOW. SILL TO FINISH AT +30" A.F.F. WITH HEAD HEIGHT AS PER ARCHITECTS DETAILS. ACCOMODATE ROLL DOWN DOOR AT INSIDE OF OPENING.

A27 G.C. TO PROVIDE SUPPORT IN CEILING TO MOUNT CHAIN HANGERS FROM CEILING MOUNT UTENSIL RACK



1 FS102 LEVEL 1 FOOD SERVICE EQUIPMENT BUILDING REQUIREMENT PLAN

1/4 = 1'-0"

4' 2' 0' 4' 8'

GSBS ARCHITECTS

375 WEST 200 SOUTH
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STATE OF UTAH
KEVIN B. MILLER
133431
LICENSED ARCHITECT

PAROLE VIOLATOR CENTER

CONSTRUCTION DOCUMENTS

1747 South 900 West
Salt Lake City, Utah

UDOC

DRAWN BY:	RCJ
CHECKED BY:	BJ
OWNER PROJECT NO.:	
GSBS PROJECT NO.:	2010.080.00
ISSUED DATE:	01/12/2012

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REVISIONS:

PLUMBING NOTES

1. PLUMBING PLANS SHOW ROUGH–IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH–IN DRAWING FOR CONSTRUCTION.
2. WATER PRESSURE IN FOOD AND BEVERAGE AREAS SHOULD BE 50 PSIG (345 KPa) MAXIMUM. WATER PRESSURE AT DISHMACHINES, BOOSTER HEATERS, GLASS AND UTENSIL WASHERS TO BE 25 PSIG (172 KPa).
3. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, STEAM AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.
4. PLUMBING CONTRACTOR TO PROVIDE GAS SERVICES AT EQUIPMENT TO MAINTAIN AN 8" (203MM) WATER COLUMN. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS AS REQUIRED BY CODE AND A.G.A. FOR INSTALLATION BY PLUMBING DIVISION INLINE BETWEEN BUILDING SERVICES AND EQUIPMENT.
5. PLUMBING DIVISION TO SUPPLY GAS SHUT OFF VALVE AT EACH EQUIPMENT CONNECTION AND INSTALL WITHIN EQUIPMENT SPREADERS OR CHASES FOR EASY ACCESSIBILITY.
6. MECHANICAL ENGINEER TO SIZE GAS ROUGH–IN FOR COOKING LINES; SCHEDULES SHOW LOADS ONLY FOR EACH PIECE NOT THE TOTAL. LOOP GAS SERVICES WHEN PRACTICAL.
7. PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
8. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL INDIRECT SINK WASTE LINES TO FLOOR SINKS.
9. PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN–OUT FOR DRAIN LINES.
10. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL FIRE PROTECTION SYSTEM (INCLUDING FURNISHING SOLENOID SHUTOFF VALVES) PLUMBING DIVISION SHALL INSTALL SHUTOFF VALVE. VERIFY LOCATION WITH KEC.
11. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR OR PER LOCAL CODE WITH REMOVEABLE GRATE COVER AS INDICATED.
12. FLOOR DRAINS INDICATED ARE FOR FOOD AND BEVERAGE AREAS ONLY ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ ARCHITECT.

PLUMBING LEGEND

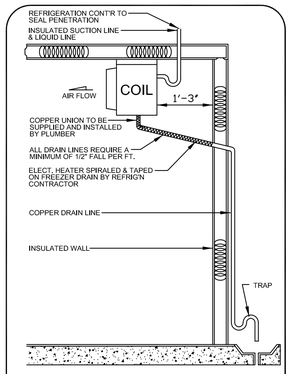
- HOT WATER
- COLD WATER
- GAS
- DIRECT WASTE DRAIN
- INDIRECT WASTE DRAIN
- FLOOR SINK WITH NO GRATE COVER
- FLOOR SINK WITH 1/2 GRATE COVER
- STUB UP FROM FLOOR
- MOUNT AT FLOOR
- DROP FROM ABOVE
- FLOOR DRAIN

NOTE: PLUMBING MOUNTING

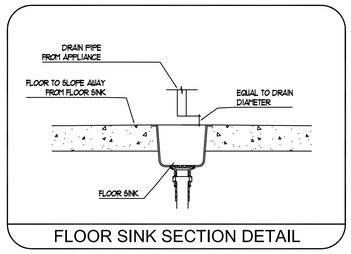
ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS, ARCHITECT TO PROVIDE MINIMUM WALL FURING IF REQUIRED.

NOTE: PLUMBING COORDINATION

KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.



CONDENSATE DRAIN (TYPICAL)



FLOOR SINK SECTION DETAIL

Jedrziewski Designs
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JedrziewskiDesigns.com

STATE OF UTAH
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LICENSED ARCHITECT

PLUMBING ROUGH–IN/FINAL CONNECTION SCHEDULE

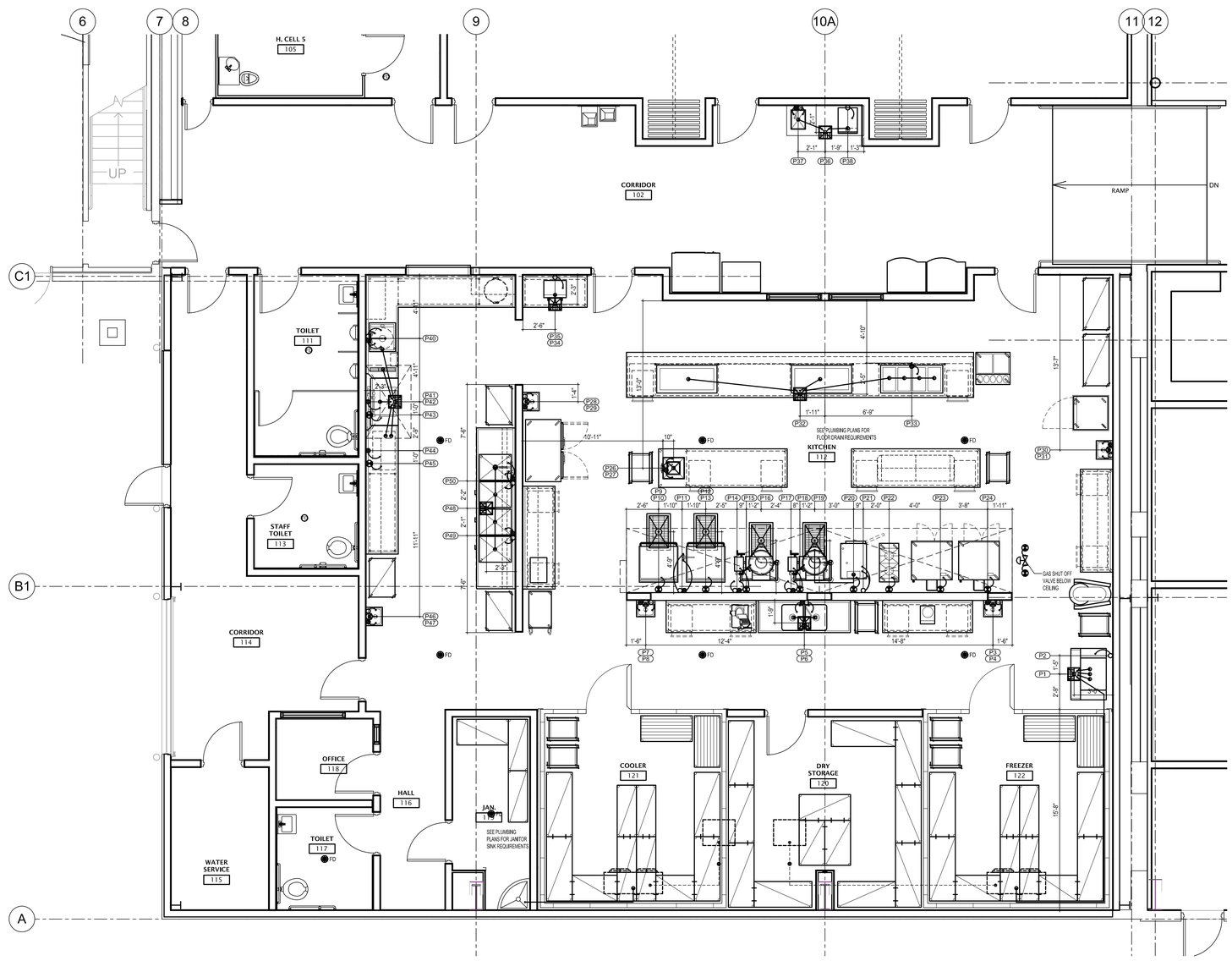
ROUGH–IN REQUIREMENTS				CONNECTION REQUIREMENTS				REMARKS
R#	ROUGH–IN TYPE	SIZE	HGT	#	ITEM # : EQUIPMENT DESCRIPTION	SIZE	HGT	REMARK
–	JANITOR SINK			–	#K4B : WALK–IN COOLER: BLOWER COILS	1	+78"	NOTE #1. RUN FROM BLOWER COIL TO THROUGH WALL TO MOP SINK IN ADJACENT ROOM.
P–01	FLOOR SINK	2"	+0"	A	#C3B : WALK–IN FREEZER: BLOWER COILS	1	+78"	HALF GRATE TOP. NOTE #1.
				B	#K49 : ICE MAKER	1/2"	+52"	NOTE #1.
				C	#K49 : ICE MAKER	1/2"	+52"	NOTE #1.
				D	#K49 : ICE BIN	3/4"	+6"	NOTE #1.
P–02	COLD WATER	1/2"	+60"	–	#K49 : ICE MAKER	3/8"	+52"	INSTALL IN LINE FILTER SYSTEM.
P–03	DIRECT DRAIN	1–1/2"	+18"	–	#K13 : HAND SINK	1–1/2"	+24"	–
P–04	HOT & COLD WATER	1/2"	+18"	–	#K13 : HAND SINK	1/2"	+36"	–
P–05	FLOOR SINK	2"	+0"	–	#K17 : PREP SINK	1–1/2"	+24"	HALF GRATE TOP. NOTE #1. TWO EACH CONNECTIONS.
P–06	HOT & COLD WATER	1/2"	+12"	–	#K17 : PREP SINK; FAUCET	1/2"	+36"	–
P–07	DIRECT DRAIN	1–1/2"	+18"	–	#K13 : HAND SINK	1–1/2"	+24"	–
P–08	HOT & COLD WATER	1/2"	+18"	–	#K13 : HAND SINK	1/2"	+36"	–
P–09	NATURAL GAS	3/4"	+18"	–	#K34 : TILT SKILLET	3/4"	+22"	91,000 BTU/HR. NOTE #2 & #3.
P–10	DIRECT DRAIN	2"	–6"	–	#K36 : FLOOR TROUGH	2"	–6"	COORDINATE INSTALLATION REQUIREMENTS WITH GENERAL AND PLUMBING CONTRACTOR.
P–11	HOT AND COLD WATER	1/2"	+18"	–	#K34 : TILT SKILLET FAUCET	1/2"	+30"	INTERCONNECT WITH FAUCET.
P–12	NATURAL GAS	3/4"	+18"	–	#K34 : TILT SKILLET	3/4"	+22"	91,000 BTU/HR. NOTE #2 & #3.
P–13	DIRECT DRAIN	2"	–6"	–	#K36 : FLOOR TROUGH	2"	–6"	COORDINATE INSTALLATION REQUIREMENTS WITH GENERAL AND PLUMBING CONTRACTOR.
P–14	HOT AND COLD WATER	1/2"	+18"	–	#K35 : TILT KETTLE FAUCET	1/2"	+30"	INTERCONNECT WITH FAUCET.
P–15	NATURAL GAS	3/4"	+18"	–	#K35 : TILT KETTLE	3/4"	+18"	90,000 BTU/HR. NOTE #2 & #3.
P–16	DIRECT DRAIN	2"	–6"	–	#K36 : FLOOR TROUGH	2"	–6"	COORDINATE INSTALLATION REQUIREMENTS WITH GENERAL AND PLUMBING CONTRACTOR.
P–17	HOT AND COLD WATER	1/2"	+18"	–	#K35 : TILT KETTLE FAUCET	1/2"	+30"	INTERCONNECT WITH FAUCET.
P–18	NATURAL GAS	3/4"	+18"	–	#K35 : TILT KETTLE	3/4"	+18"	90,000 BTU/HR. NOTE #2 & #3.
P–19	DIRECT DRAIN	2"	–6"	A	#K36 : FLOOR TROUGH	2"	–6"	COORDINATE INSTALLATION REQUIREMENTS WITH GENERAL AND PLUMBING CONTRACTOR.
				B	#K37 : CONVECTION STEAMER: CONDENSER	2"	+10"	NOTE #1. DRAIN TO FLOOR TROUGH.
P–20	NATURAL GAS	3/4"	+18"	–	#K37 : CONVECTION STEAMER	3/4"	+18"	100,000 BTU/HR. NOTE #2 & #3.
P–21	COLD WATER	1/2"	+18"	A	#K37 : CONVECTION STEAMER: CONDENSER	1/2"	+30"	COLD ONLY FEED TO BE 35 TO 60 PSI.
				B	#K37 : CONVECTION STEAMER: GENERATOR	3/8"	+30"	COLD ONLY FEED TO BE 35 TO 60 PSI.
P–22	NATURAL GAS	1–1/4"	+18"	–	#K39 : TWO BURNER RANGE	1–1/4"	+30"	66,000 BTU/HR. NOTE #2 & #3.
P–23	NATURAL GAS	3/4"	+18"	–	#K38 : CONVECTION OVEN	3/4"	+30"	120,000 BTU/HR. NOTE #2 & #3.
P–24	NATURAL GAS	3/4"	+18"	–	#K38 : CONVECTION OVEN	3/4"	+30"	120,000 BTU/HR. NOTE #2 & #3.
P–25	NOT USED							
P–26	FLOOR SINK	2"	+0"	–	#K44 : WORK TABLE UTILITY SINK	1–1/2"	+24"	NOTE #1
P–27	HOT & COLD WATER	1/2"	STUB	–	#K44 : UTILITY SINK	1/2"	+36"	–
P–28	DIRECT DRAIN	1–1/2"	+18"	–	#K13 : HAND SINK	1–1/2"	+24"	–
P–29	HOT & COLD WATER	1/2"	+18"	–	#K13 : HAND SINK	1/2"	+36"	–
P–30	DIRECT DRAIN	1–1/2"	+18"	–	#K13 : HAND SINK	1–1/2"	+24"	–
P–31	HOT & COLD WATER	1/2"	+18"	–	#K13 : HAND SINK	1/2"	+36"	–
P–32	FLOOR SINK	2"	+0"	A	#K54 : HOT FOOD WARMER	1"	+20"	HALF GRATE TOP. NOTE #1.
				B	#K56 : REFRIGERATED COLD PAN	1"	+24"	NOTE #1
				C	#K56 : REFRIGERATED COLD PAN	1"	+24"	NOTE #1
P–33	HOT WATER	1/2"	STUB	–	#K54 : HOT FOOD WARMER	1/2"	+24"	P.C. TO PROVIDE AND INSTALL REQUIRED BACK FLOW PREVENTOR.
P–34	FLOOR SINK	2"	+0"	–	#K63 : COFFEE BREWER	1–1/2"	+24"	HALF GRATE TOP. NOTE #1. VERIFY WITH VENDER.
P–35	COLD WATER	1/2"	+18"	–	#K63 : COFFEE MAKER	1/4"	+36"	INSTALL FILTER. VERIFY WITH VENDER.
P–36	FLOOR SINK	2"	+0"	A	#K65 : UTILITY SINK	1–1/2"	+24"	HALF GRATE TOP. NOTE #1.
				B	#K64 : ICE MAKER/DISPENSER	1/2"	+36"	NOTE #1.
P–37	HOT & COLD WATER	1/2"	+18"	–	#K65 : UTILITY SINK; FAUCET	1/2"	+36"	–
P–38	COLD WATER	1/2"	+18"	–	#K64 : ICE MAKER/DISPENSER	1/4"	+36"	INSTALL FILTER SYSTEM IN LINE.
P–39	NOT USED							
P–40	HOT & COLD WATER	1/2"	+12"	A	#K72 : PRE–RINSE FAUCET	1/2"	+36"	–
				B	#K71 : SCRAP COLLECTOR	1/2"	+24"	–
P–41	FLOOR SINK	2"	0"	A	#K73 : DISHWASHER	2"	+4"	EXTRA DEEP FLOOR SINK. NOTE #1 HALF GRATE TOP.
				B	#K76 : BOOSTER HEATER; PRESSURE RELIEF	3/4"	+22"	NOTE #1
				C	#K76 : BOOSTER HEATER; TANK	3/4"	+2"	NOTE #1
				D	#K71 : SCRAP COLLECTOR	2"	+6"	NOTE #1.
P–42	HOT WATER	3/4"	+12"	–	#K73 : DISHWASHER	3/4"	+14"	WATER IN: 140 F. 20–25 PSI.
P–43	NATURAL GAS	1/2"	+18"	–	#K73 : DISHWASHER	1/2"	+24"	78,000 BTU/HR. NOTE #4.
P–44	HOT WATER	1"	+12"	–	#K76 : BOOSTER HEATER	1"	+15"	WATER IN: 140 F. 15–25 PSI.
P–45	NATURAL GAS	3/4"	+18"	–	#K76 BOOSTER HEATER	3/4"	+24"	195,000 BTU/HR. NOTE #4
P–46	DIRECT DRAIN	1–1/2"	+18"	–	#K13 : HAND SINK	1–1/2"	+24"	–
P–47	HOT & COLD WATER	1/2"	+18"	–	#K13 : HAND SINK	1/2"	+36"	–
P–48	FLOOR SINK	2"	+0"	–	#K181 : FOUR COMPARTMENT SINK	1–1/2"	+24"	HALF GRATE TOP. NOTE #1. FOUR EACH CONNECTIONS.
P–49	HOT & COLD WATER	1/2"	+12"	–	#K81 : FOUR COMPARTMENT SINK; FAUCET	1/2"	+36"	TWO EACH CONNECTIONS.
P–50	HOT & COLD WATER	1/2"	+12"	–	#K83 : PRE–RINSE FAUCET	1/2"	+36"	–

NOTE #1: PROVIDE INDIRECT AIR GAP DRAIN TO FLOOR SINK.
NOTE #2: K.E.C. TO PROVIDE QUICK DISCONNECT COUPLINGS AT GAS ROUGH–IN AND FINAL CONNECTION. FOR PLUMBING CONTRACTOR TO INSTAL
NOTE #3: K.E.C. TO PROVIDE PRESSURE REGULATOR AT GAS FINAL CONNECTION AS REQUIRED TO ADJUST FOR ALTITUDE. FOR PLUMBING CONTRACTOR TO INSTAL

REFRIGERATION ROUGH–IN/FINAL CONNECTION SCHEDULE

ROUGH–IN REQUIREMENTS				CONNECTION REQUIREMENTS				REMARKS
R#	ROUGH–IN TYPE	SIZE	HGT	#	ITEM # : EQUIPMENT DESCRIPTION	SIZE	HGT	REMARK
R1	REF. LINES: SUCTION	–	DFA	–	#K4 : WALK–IN COOLER REFRIGERATION	–	VER.	CONNECT FROM BLOWER COIL TO
	REF. LINES: LIQUID	–	DFA			–	VER.	REMOTE CONDENSER ON ROOF.
R2	REF. LINES: SUCTION	–	DFA	–	#K3 : WALK–IN FREEZER REFRIGERATION	–	VER.	CONNECT FROM TWO BLOWER COILS TO
	REF. LINES: LIQUID	–	DFA			–	VER.	REMOTE CONDENSER ON ROOF.

NOTE #1: K.E.C. TO SIZE REFRIGERATION LINES AS REQUIRED FOR PROPER OPERATION OF REFRIGERATION UNITS. VERIFY LOCATION OF CONDENSERS ON ROOF.
NOTE #2: GENERAL CONTRACTOR IS TO PROVIDE WALL, FLOOR AND CEILING PENETRATIONS TO ACCOMODATE REFRIGERATION LINES FROM ROUGH–IN LOCATIONS TO CONDENSER LOCATIONS ON ROOF.



1 / FS103 LEVEL 1 FOOD SERVICE EQUIPMENT PLUMBING REQUIREMENT PLAN
1/4 = 1'-0"

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LEVEL 1 FOOD SERVICE EQUIPMENT PLUMBING REQUIREMENT PLAN

FS103

ELECTRICAL NOTES

1. ELECTRICAL PLAN SHOWS ROUGH–IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH–IN DRAWINGS FOR CONSTRUCTION.
2. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLTS, 1&3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.
3. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING EXCEPT WHERE NOTED. RECEPTACLES AND COVER PLATES SHALL BE BRUSHED STAINLESS STEEL FURNISHED BY ELECTRICAL DIVISION.
4. ALL CONDUIT RUNS INDICATED FOR REFRIGERATION, DRINK AND LIQUOR SYSTEM LINES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION. CONDUIT SHALL HAVE 24" (600MM) MINIMUM RADIUS BENDS.
5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS. INTERCONNECTING CONDUIT, WIRING WITH WALL SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION.
6. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND INTERCOM JACKS AND TEMPERATURE MONITORING SYSTEM ETC.. SHALL BE LOCATED BY THE ELECTRICAL ENGINEER/ ARCHITECT AND AS REQUIRED BY CODE.
7. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH DISPOSER CONTROLS. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL INTER–CONNECTING CONDUIT AND WIRE BETWEEN SWITCH, DISPOSER AND COMPONENTS.
8. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN MICRO–SWITCH AND SOLENOID FUEL SHUT OFF VALVE FURNISHED WITH FIRE SUPPRESSION SYSTEM SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR.
9. PRE–FABRICATED COLD STORAGE ROOMS ARE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR COMPLETE WITH SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND DOOR HEATERS. ELECTRICAL DIVISION TO INSTALL SAME AND SHALL FURNISH AND INSTALL INTERCONNECTING CONDUIT, WIRING SEALOFFS, SEALANT AND MAKE FINAL CONNECTIONS.
10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN KITCHEN EQUIPMENT CONTRACTOR FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL BLOCK, SWITCH, FAN DOOR SWITCH AND COMPRESSOR CONTROL PANEL.
11. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL EMPTY CONDUIT WITH JUNCTION BOXES FOR INSTALLATION OF OWNER SUPPLIED I.T. EQUIPMENT INCLUDING POS/ ELECTRONIC CASH CONTROL SYSTEM. ELECTRICAL DIVISION TO VERIFY INSTALLATION IN ACCORDANCE WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
12. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL DISCONNECTS FOR ALL ELECTRICAL EQUIPMENT UNDER HOOD ACTIVATED BY FIRE SUPPRESSION SYSTEM.

ELECTRICAL LEGEND

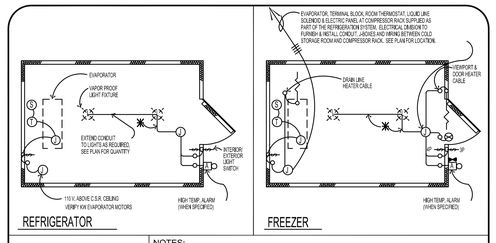
- ELECTRICAL OUTLET
- JUNCTION BOX
- CONVENIENCE DUPLEX RECEPTACLE
- FLEX CONNECTION (CONTINUOUS WIRE FROM ROUGH-IN TO JUNCTION/OUTLET LOCATION)
- DATA CONDUIT
- SWITCH
- CONTROLS
- STUB FROM FLOOR
- DROP FROM ABOVE
- DROP CORD FROM CEILING TO +72" A.F.F.
- FLOOR MOUNTED

NOTE: ELECTRICAL MOUNTING

ALL WALL MOUNT ELECTRICAL RECEPTACLE AND J–BOXES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

NOTE: WALK–IN ELECTRICAL

ALL CONDUIT SHALL BE RUN ON THE EXTERIOR CEILING OF ALL COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE THE CONDUIT CAN DROP DIRECTLY TO THE POINT OF CONNECTION. UNDER NO CIRCUMSTANCES, WILL ELECTRICAL CONDUIT BE PERMITTED ON THE INTERIOR.



- JUNCTION BOX
- THERMOSTAT
- LIQUID LINE SOLENOID
- EYS & NIPPLE FOR CEILING PENETRATION TO SPLICE BOX
- HEATED VACUUM VENT

C.S.R. - COLD STORAGE ROOM

EMT RIGID CONDUIT RUN ABOVE C.S.R. CEILING BY ELEC. DIVISION (TYP)

110 V. ABOVE COLD STORAGE ROOM CEILING
- 1 KW LIGHTS (EACH)
- 2 KW VEIMPORT & DOOR HEATER (FREEZER)
- 1 KW HIGH TEMP. ALARM (WHEN SPECIFIED)

NOTES:

1. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, & SPLICE BOXES ARE FURNISHED LOOSE WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL ALL ITEMS FURNISHED LOOSE INCLUDING ALL INTERCONNECTING CONDUIT & WIRING.
2. EVAPORATORS FOR COLD STORAGE ROOM ARE FURNISHED & INSTALLED COMPLETE WITH ROOM THERMOSTAT, LIQUID LINE SOLENOID & DISCONNECT SWITCH. ELECTRICAL DIVISION TO PROVIDE INTERCONNECTING CONDUIT & WIRING FORM BUILDING SERVICE TO ALL COMPONENTS.
3. ELECTRICAL DIVISION TO PROVIDE ALL BUILDING SERVICES INCLUDING J-BOXES, INTERCONNECTING CONDUIT & WIRING FROM BUILDING SERVICE TO COMPONENTS.
4. EYS FITTING FURNISHED WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL, WIRE & SEAL BY ACCEPTED INDUSTRY PRACTICE.
5. STAINLESS STEEL ESCUTCHEON PLATES & HOLES THROUGH INSULATED PANELS ARE FURNISHED WITH COLD STORAGE ROOM. ELECTRICAL DIVISION TO SEAL ALL PENETRATIONS WITH CAULKING ON THE C.S.R.- INTERIOR & EXTERIOR AND INSTALL INTERIOR & EXTERIOR ESCUTCHEON PLATES.
6. EVAPORATOR FAN MOTORS FOR REFRIGERATORS RUN CONTINUOUSLY. DO NOT WIRE INTERNALLY WITH THERMOSTAT. EVAPORATOR FAN MOTORS FOR FREEZERS CYCLE WITH FREEZER DEFROST.

TYPICAL COLD STORAGE ROOMS ELEC. DIAGRAM

ELECTRICAL ROUGH–IN/FINAL CONNECTION SCHEDULE

ROUGH–IN REQUIREMENTS			CONNECTION REQUIREMENTS				REMARKS
ID#	ROUGH–IN TYPE	HGT.	ITEM # : EQUIPMENT DESCRIPTION	VLT/CYC/PH	LOAD	CONN	REMARK.
E–01	JUNCTION BOX	VER	#K4A : WALK–IN COOLER REF: CONDENSER	208/60/3	1.5 HP	J–BOX	VERIFY LOCATION OF REMOTE UNIT ON ROOF.
E–02	JUNCTION BOX	DFA	#K4B : WALK–IN COOLER REF: BLOWER COILS	115/60/1	4.2 AMP	J–BOX	INTERCONNECT CONTROLS WITH REMOTE CONDENSER.
E–03	JUNCTION BOX	DFA	#K2B : WALK–IN COOLER: LIGHTS AND HEATER	115/60/1	6 AMP	J–BOX	INTERCONNECT (6) ADDITIONAL LIGHTS.
E–04	JUNCTION BOX	VER.	#K3A : WALK–IN FREEZER REF: CONDENSER	208/60/3	3 HP	J–BOX	VERIFY LOCATION OF REMOTE UNIT ON ROOF.
E–05	JUNCTION BOX	DFA	#K3B : WALK–IN FREEZER REF: BLOWER COILS	208/60/1	2.2 AMP	J–BOX	INTERCONNECT CONTROLS WITH REMOTE CONDENSER.
E–06	JUNCTION BOX	DFA	#K3B : WALK–IN FREEZER REF: DEFROST	208/60/1	8.7 AMP	J–BOX	INTERCONNECT DEFROST WITH REMOTE CONDENSER.
E–07	JUNCTION BOX	DFA	#K2A : WALK–IN FREEZER: LIGHTS AND HEATER	115/60/1	6 AMP	J–BOX	INTERCONNECT (6) ADDITIONAL LIGHT.
E–08	JUNCTION BOX	+72"	#K49 : ICE MAKER	208/60/1	11.9 AMP	J–BOX	–
E–09	CONVENIENCE OUTLET	+48"	#K14 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–10	OUTLET	+48"	#K15 : SLICER	115/60/1	1/2 HP	C&P	–
E–11	CONVENIENCE OUTLET	+48"	#K14 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–12	OUTLET	+48"	#K16 : FOOD PROCESSOR	120/60/1	8 AMP	C&P	–
E–13	CONVENIENCE OUTLET	+48"	#K14 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–14	JUNCTION BOX	+18"	#K24 : 60 QUART MIXER	200/60/1	18 AMP	J–BOX	–
E–15	CONVENIENCE OUTLET	+48"	#K21 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–16	CONVENIENCE OUTLET	+48"	#K21 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–17	CONVENIENCE OUTLET	+48"	#K21 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–18	OUTLET	+18"	#K47 : HOT FOOD WARMING CABINET	120/60/1	19.3 AMP	C&P	–
E–19	OUTLET	+48"	#K28 : MILK DISPENSER	120/60/1	1.3 AMP	C&P	VERIFY WITH VENDER.
E–20	CONVENIENCE OUTLET	+48"	#K29 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–21	CONVENIENCE OUTLET	+48"	#K29 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–22	OUTLET	+90"	#K48 : REACH–IN REFRIGERATOR	115/60/1	10 AMP	C&P	–
E–23	NOT USED	–	– : –	–	–	–	–
E–24	JUNCTION BOX	DFA	#K32 : EXHAUST HOOD	120/60/1	1,200 WATT	J–BOX	INTERCONNECT WITH EXHAUST SYSTEM AND HOOD SWITCH
E–25	SWITCH/CONTROLS	+54"	#K32 : EXHAUST HOOD: SWITCH	120/60/1	–	–	INTERCONNECT WITH EXHAUST SYSTEM AND EXHAUST HOOD
E–26	JUNCTION BOX	DFA	#K33 : GAS SHUT OFF VALVE	120/60/1	1 AMP	J–BOX	CONNECT TO GAS SHUT OFF AND HOOD CONTROLS AS REQ'D. INTERCONNECT WITH SHUNT TRIP BREAKERS FOR HOOD EQUIPMENT. PROVIDED WITH FIVE CONTACTS.
E–27	EMERGENCY SWITCH	+54"	#K33 : EXHAUST HOOD: KILL SWITCH	–	–	–	INCLUDED WITH FIRE PROTECTION SYSTEM BY K.E.C.
E–28	JUNCTION BOX	DFA	#K32 : EXHAUST HOOD: HEAT SENSOR	120/60/1	15 AMP	J–BOX	INTERCONNECT TO TERMINAL BLOCK PROVIDED IN HOOD. NOTE #2.
E–29	NOT USED	–	– : –	–	–	–	–
E–30	NOT USED	–	– : –	–	–	–	–
E–31	OUTLET	+18"	#K34 : TILT SKILLET	120/60/1	1.8 AMP	C&P	–
E–32	OUTLET	+18"	#K34 : TILT SKILLET	120/60/1	1.8 AMP	C&P	–
E–33	OUTLET	+18"	#K35 : 25 GALLON TILT KETTLE	120/60/1	5 AMP	C&P	–
E–34	OUTLET	+18"	#K35 : 25 GALLON TILT KETTLE	120/60/1	5 AMP	C&P	–
E–35	JUNCTION BOX	+18"	#K37 : STEAMER	115/60/1	300 WATT	J–BOX	–
E–36	OUTLET	+18"	#K38 : CONVECTION OVEN	115/60/1	6 AMP	C&P	–
E–37	OUTLET	+18"	#K38 : CONVECTION OVEN	115/60/1	6 AMP	C&P	–
E–38	OUTLET	+18"	#K38 : CONVECTION OVEN	115/60/1	6 AMP	C&P	–
E–39	OUTLET	+18"	#K38 : CONVECTION OVEN	115/60/1	6 AMP	C&P	–
E–40	NOT USED	–	– : –	–	–	–	–
E–41	JUNCTION BOX	STUB	#K44 : WORK TABLE	120/60/1	180 WATT	C&P	CONECT TO OUTLET MOUNTED ON WORK TABLE. ONE EACH OUTLET CONNECTION. NOTE #1.
E–42	JUNCTION BOX	STUB	#K45 : WORK TABLE	120/60/1	360 WATT	C&P	CONECT TO OUTLET MOUNTED ON WORK TABLE. TWO EACH OUTLET CONNECTION. NOTE #1.
E–43	OUTLET	STUB	#K56 : REFRIGERATED COLD PAN	120/60/1	4 AMP	C&P	INTERCONNECT SWITCH TO OUTLET.
E–44	JUNCTION BOX	STUB	#K53 : SERVING COUNTER	120/60/1	180 WATT	C&P	CONECT TO OUTLET MOUNTED ON WORK TABLE. NOTE #1.
E–45	OUTLET	STUB	#K56 : REFRIGERATED COLD PAN	120/60/1	4 AMP	C&P	INTERCONNECT SWITCH TO OUTLET.
E–46	JUNCTION BOX	STUB	#K53 : SERVING COUNTER	120/60/1	180 WATT	C&P	CONECT TO OUTLET MOUNTED ON WORK TABLE. NOTE #1.
E–47	JUNCTION BOX	STUB	#K54 : HOT FOOD WARMER	208/60/1	21.2 AMP	J–BOX	INTERCONNECT CONTROLS.
E–48	CONVENIENCE OUTLET	+48"	#K62 : WORK TABLE	120/60/1	180 WATT	C&P	–
E–49	OUTLET	+48"	#K63 : COFFEE BREWING SYSTEM	208/60/1	20 AMP	C&P	VERIFY WITH VENDER
E–50	NOT USED	–	– : –	–	–	–	–
E–51	SWITCH/CONTROLS	+54"	#K74 : VENT HOOD: SWITCH	120/60/1	–	–	INTERCONNECT WITH VENT HOOD EXHAUST SYSTEM. NOTE #3.
E–52	JUNCTION BOX	+18"	#K71 : SCRAP COLLECTOR	208/60/3	3.2 AMP	J–BOX	INTERCONNECT CONTROLS.
E–53	JUNCTION BOX	+18"	#K73 : DISHWASHER	208/60/3	10.7 AMP	J–BOX	INTERCONNECT CONTROLS. NOTE #3.
E–54	JUNCTION BOX	+18"	#K76 : BOOSTER HEATER	120/60/1	3 AMP	J–BOX	NOTE #3.
E–55	CONVENIENCE OUTLET	+48"	– : WORK COUNTER	120/60/1	180 WATT	C&P	–
E–56	OUTLET	+48"	#K64 : ICE MAKER/DISPENSER	115/60/1	10.3 AMP	C&P	–

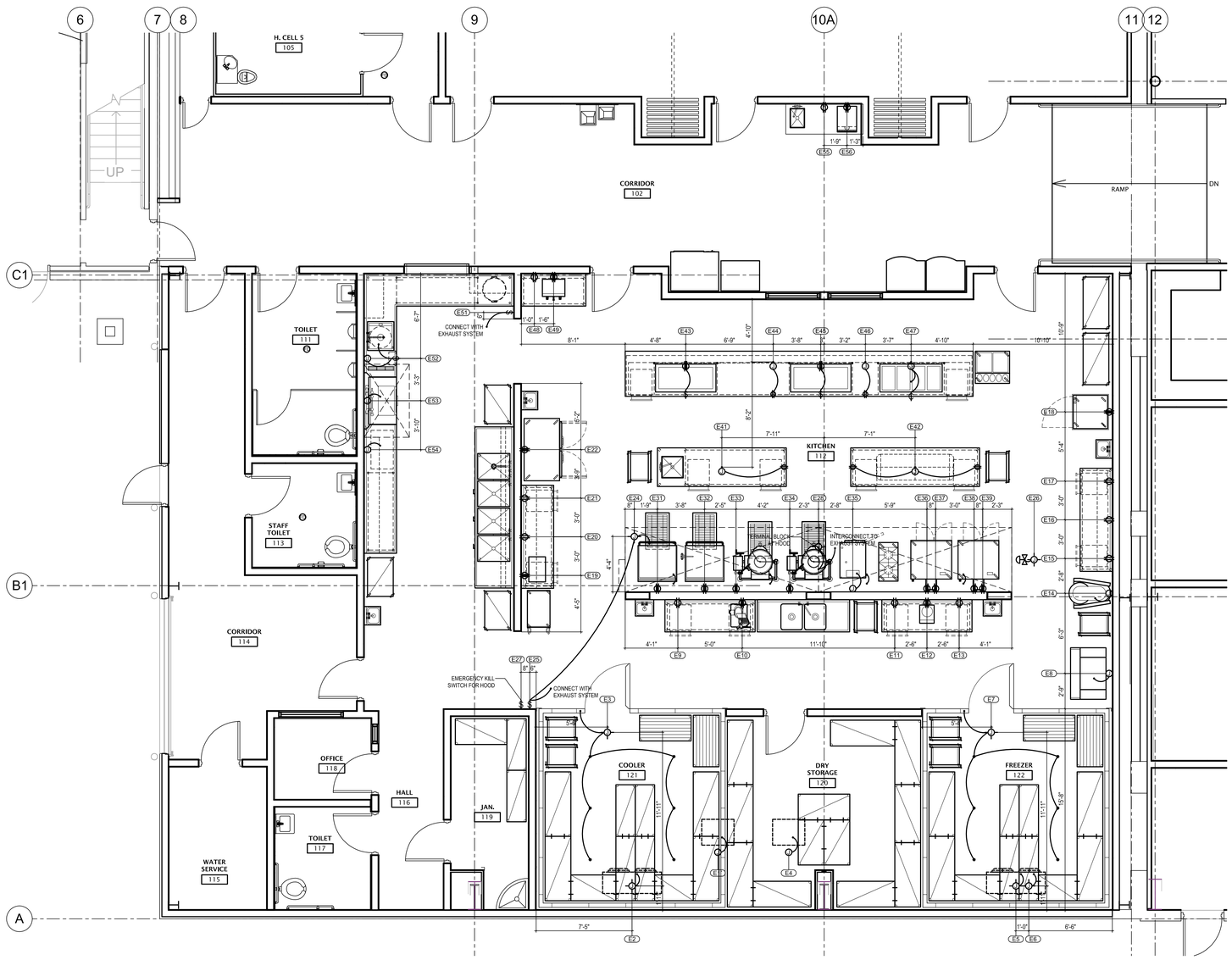
NOTE #1: RUN FROM ROUGH–IN AND MOUNT OUTLET/JUNCTION BOX AT UNDERSIDE OF TABLE/COUNTER.

NOTE #2: ELECTRICIAN TO FIELD WIRE LOW VOLTAGE FROM EACH TEMPERATURE CONTROLLER TO HEAT SENSOR PROVIDED WITH HOOD AT EACH EXHAUST RISER. ELECTRICIAN TO INTERLOCK CONTACTORS OR STARTERS SPECIFIED BY MECHANICAL SYSTEM TO THE CONTACTS AT THE TERMINAL BLOCK TO OPERATE FAN.

NOTE #3: INTERCONNECT POWER TO DISHWASHER AND BOOSTER HEATER WITH EXHAUST FAN SWITCH/CONTROLS SO THAT THE EQUIPMENT WILL OPERATE ONLY WHEN THE EXHAUST FAN IS OPERATING.

DFA: DROP FROM ABOVE
J–BOX: JUNCTION BOX CONNECTION
C&P: CORD AND PLUG

AMP: AMPERES
HP: HORSE POWER



1 / FS104 LEVEL 1 FOOD SERVICE EQUIPMENT ELECTRICAL REQUIREMENT PLAN

1/4 = 1'-0"

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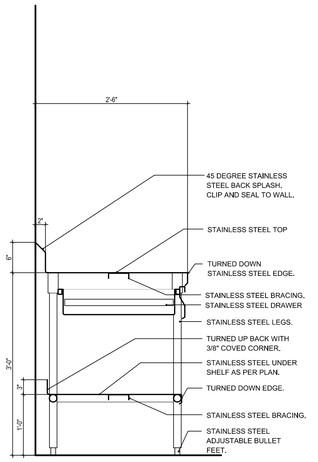
UDOC

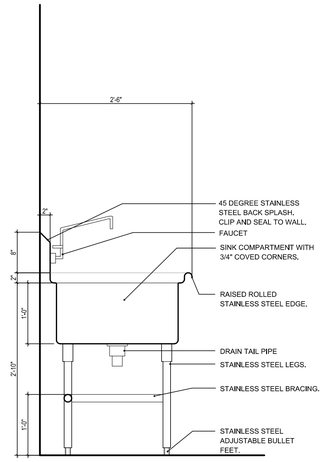
DRAWN BY:	RCJ
CHECKED BY:	BJ
OWNER PROJECT NO.:	
GSBS PROJECT NO.:	2010.080.00
ISSUED DATE:	01/12/2012

LEVEL 1 FOOD SERVICE EQUIPMENT ELECTRICAL REQUIREMENT PLAN

FS104



WALL WORK TABLE
SECTION DETAIL
SCALE: 1" = 1'-0"
C FS105



PREP SINK COMPARTMENT
SECTION DETAIL
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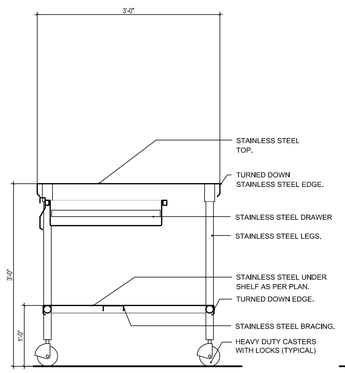
D FS105



ISLAND WORK TABLE
SECTION DETAIL
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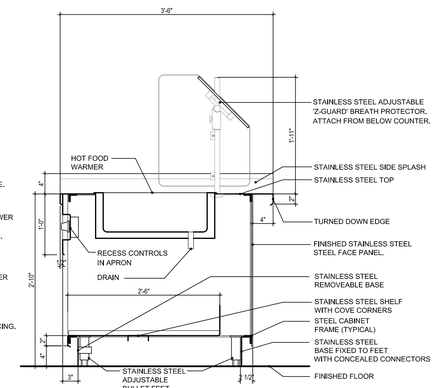
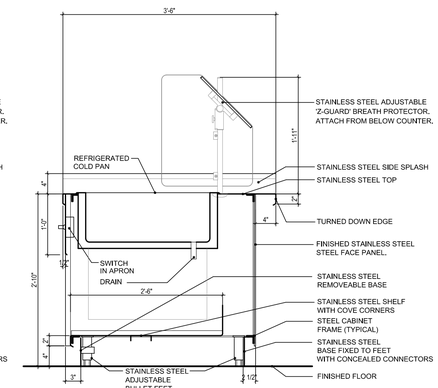
E FS105



SERVING COUNTER, HOT
SECTION DETAIL
SCALE: 1" = 1'-0"
F FS105



SERVING COUNTER, COLD
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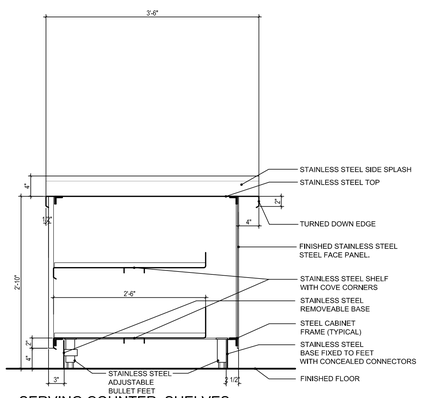
G FS105



SERVING COUNTER, SHELVES
SECTION DETAIL
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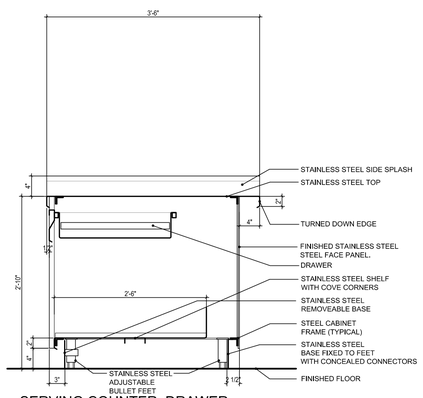
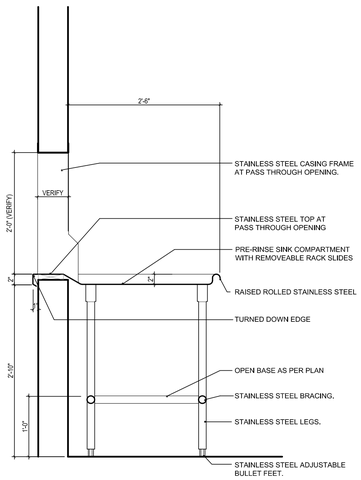
H FS105



SERVING COUNTER, DRAWER
SECTION DETAIL
SCALE: 1" = 1'-0"
I FS105



DISH TRAY DROP
SECTION DETAIL
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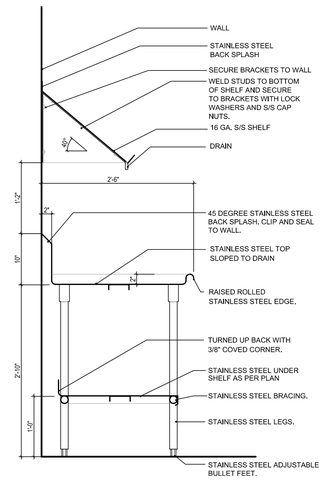
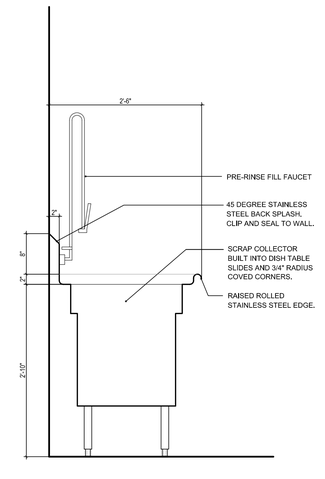
J FS105



DIRTY DISH TABLE
SECTION DETAIL
SCALE: 1" = 1'-0"
K FS105



WASTE COLLECTOR
SECTION DETAIL
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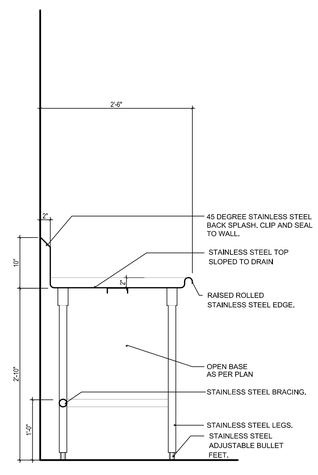
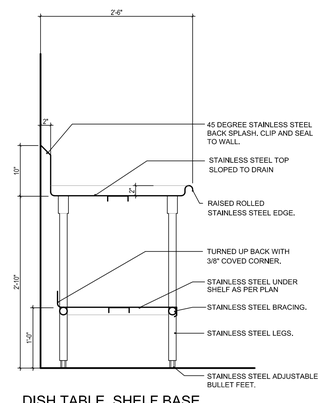
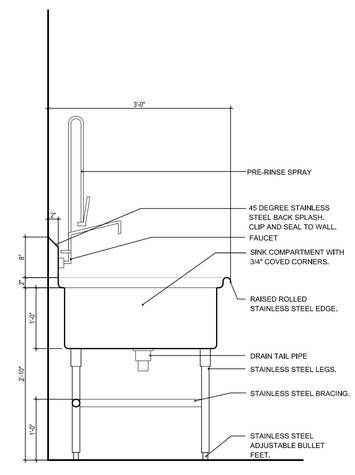
L FS105



DISH TABLE, OPEN BASE
SECTION DETAIL
SCALE: 1" = 1'-0"
M FS105



DISH TABLE, SHELF BASE
SECTION DETAIL
SCALE: 1" = 1'-0"
N FS105



POT SINK COMPARTMENT
SECTION DETAIL
SCALE: 1" = 1'-0"
O FS105

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ISSUED DATE:	01/12/2012

FOOD SERVICE EQUIPMENT
CUSTOM EQUIPMENT DETAILS

FS105